SAMSUNG TECHWIN

NET-i viewer

User Manual

v1.39

Before installing or while using this program, visit the Samsung website www.samsungsecurity.com
and download and upgrade with the latest S/W version available.

Overview

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Overview

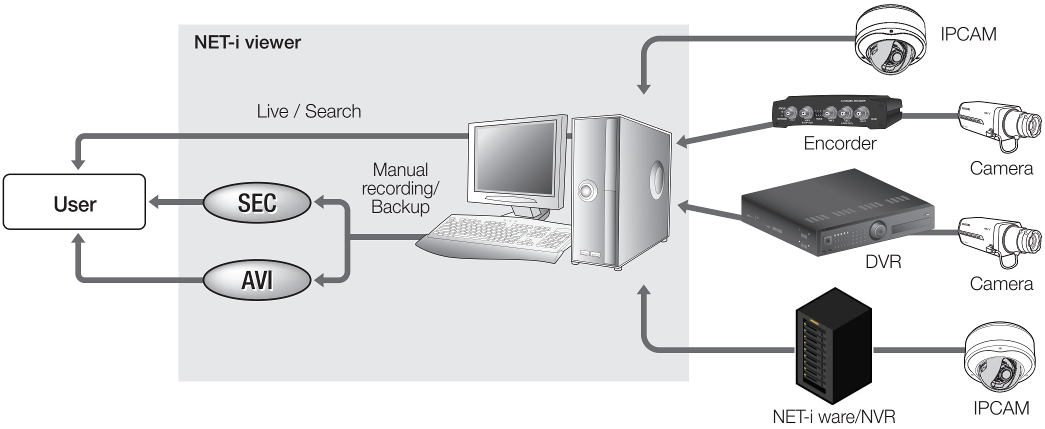
WHAT IS NET-i viewer?

NET-i viewer is an open solution for security and automated monitoring environments.

This software program provides general functions for monitoring, and is integrated with a network system that consists of : video server, DVR and network cameras via the network environment.

You can see live motions according to the configuration.

Understanding of NET-i viewer


NET-i viewer
Live / Search
Manual recording/ Backup
User
SEC
AVI
IPCAM
Encorder
Camera
DVR
Camera
NET-i ware/NVR
IPCAM

1. A user can view the real-time video or recorded video on the DVR through the NET-i viewer.
2. A user can save the real-time video or backup recorded video in the DVR by using the NET-i viewer.
3. Recorded files and backup files in SEC format can be played back without using a separate player, and files in avi format can be played back with a common media player.

System Requirements

Item	Minimum PC Specification	Recommended PC Specification
CPU	Intel Core2Quad 2.5GHz or faster	Intel i7 or faster
RAM	3GB or higher	3GB or higher
HDD	200GB or higher	200GB or higher
VGA card	512MB or higher	1GB or higher
Display resolution	1280 x 1024 or higher	
OS	Window XP Professional, Windows 2000 Professional, Windows Vista Home Basic/Premium/Ultimate, Windows 7, DirectX 8.1 or higher, OpenGL compatible	
Network	10/100/1000 Ethernet NIC	
CD ROM	Required	

- When you use Mega pixel cameras, video settings must be adjusted depend on your PC performance and the number of simultaneous monitoring video. The following are the system requirements for installing and running NET-i viewer, setup guide for monitoring H.264 video.
  - It is recommended to set individual camera frame rate up to 10fps when monitor 16 channels of megapixel camera simultaneously with settings on 1280x1024 resolution, 5120Kbps (CBR)
  - It is recommended to set individual camera frame rate up to 3fps when monitor 32 channels of megapixel camera simultaneously with settings on 1280x1024 resolution, 1024Kbps (CBR)
  - It is recommended to set individual camera frame rate up to 5fps when monitor 16 channels of megapixel camera with settings on 1280x1024 resolution, 2560Kbps (CBR) and 16 channels of camera with settings on 4CIF resolution.
- For better performance for 4 or more monitors connected, using 2 PCI-E type VGA graphics adaptor with 512MB graphics memory and Intel i7 or faster CPU is recommended.
- Monitoring performance may drop if enabled deinterlacing or OSD function.
- You may run NET-i viewer regardless of OS login account.
  - For versions prior to v1.38, only Administrator's account can run it.
  - Installation, uninstallation and updating requires administrator’s privilege of your operating system.

- Pay attention to below cautions when updating from v1.37 or earlier.
  - File paths for logs, recordings, backups and captured images will be changed.(existing files remain in the previous file location.)
  - If selected a file path having insufficient permission, setting is applied but will not write files.
  - After updating, search will not find logs written by version 1.37 or earlier. However, you can enable searching old version's logs by moving them to the new path manually.
  - Running two or more CMS instances on one PC using different user accounts is not guaranteed with proper operation.

Overview

KEY FEATURES OF NET-i viewer

- Up to 64 simultaneous real-time channel monitoring (4 monitors)
- Manual Recording (Can record each of one Live and Map Viewer, up to 24 hours)
- Remote event monitoring function
- Audio function support (Listen / Talk)
- Supports various video formats
  - MPEG4, MJPEG, H.264
- Supports various audio formats
  - G.726, G.711, G.723 and PCM
- Remote PTZ control (Power PTZ)
- Digital Zoom
- Various search options
  - Search for calendar, video clip, event and POS enabled
- Backup
  - AVI and Samsung's unique formats (REC1, SEC)
- Various play control
  - Supports up to 64x fast forward and rewind search
- Easy-to-use user interface
  - Context menus
  - Provides shortcut keys
- Map-based Monitoring
  - Auto display of the Live video for an event that occurs
- Search for the Viewer logs stored in the PC
- Auto update
- Sync with Joystick

DESCRIPTION OF NET-i viewer

NET-i viewer provides various useful tools such as Setup Tool, Live Viewer, Search Viewer, Map Viewer and Update.

Application	Description
Setup Tool **You can configure the settings for remote devices as well as NET-i viewer.**	Language Setting Register / Modify / Delete Device Create / Edit / Delete Site (Map Setting Allowed) Create / Edit / Delete Layout Recording File Path Audio Mode Setting Event Setting F/W Upgrade Import / Export Device Configuration Import / Export NET-i viewer Configuration Configuring system options
Live Viewer **You can monitor real-time video, receive a real-time event, and control the PTZ.**	Real-time Monitoring Device Event Monitoring (Alarm/Motion/Video Loss/Audio Detection/Intelligent video analysis) PTZ Listen / Talk Manual Recording Remote Recording Digital Zoom Map Capture / Print Event / System Log Multiple monitors (max. 4)
Search Viewer **You can search for and play recorded file saved in a local PC or a device.**	Calendar Search Event Search POS Search Backup Listen Videoclip Search Playback Control

Overview

Application	Description
Map Viewer	Create / Delete / Edit Map Show Live Video Show the Live Video of Event-generating Camera Show the Video Recorded at the Event Time Auto display of the Live video from the camera that detects an event Control PTZ Listen / Talk Manual Recording Capture / Print Event / System Log
Log Viewer	Search for the stored logs
Update	Auto Update Manual Update
Common Features	Connect / Disconnect Device User Login Tile Switching Find Camera / Tile Hot Keys Camera / Video Information Show / Hide Window

TERMINOLOGY

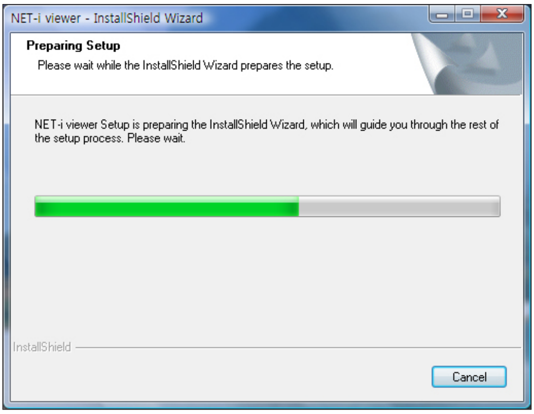
- Tree : An area where you can see the relationship of entity lists and entitles.
- Context-Sensitive Menu : Right-clicking over an entity shows different menu depending on the entity.
  This menu is called context-sensitive menu.
- Device : General term for DVR, video server and network camera.
- Tile : An area you can view one image.
- Entity : It refers to device, camera, site, layout, alarm, etc.
- Logical View : A view where you can view cameras and alarms grouped by region using Site.
- Physical View : A view where you can view physical connections of devices, cameras, and alarms.
- Timeline : It represents whether recording exists and recording section type in time axis.
- Monitor : This is a monitoring area that allows you to view multiple videos.
  This area consists of multiple layouts.
- Tampering : It includes explicit change and disturbance with scene changes, such as suddenly changed framing,
  spraying on lens, blurred focusing and screen black-out.

Installation

INSTALLING NET-i viewer

Run the installation program, SETUP.EXE to install NET-i viewer on your PC.

1. Execute the NET-i viewer installation program, SETUP.EXE on your CD or anywhere copied to your PC.

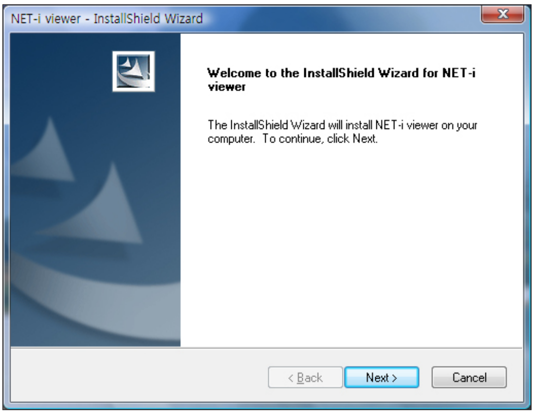


Preparing Setup

Please wait while the InstallShield Wizard prepares the setup.

NET-i viewer Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.

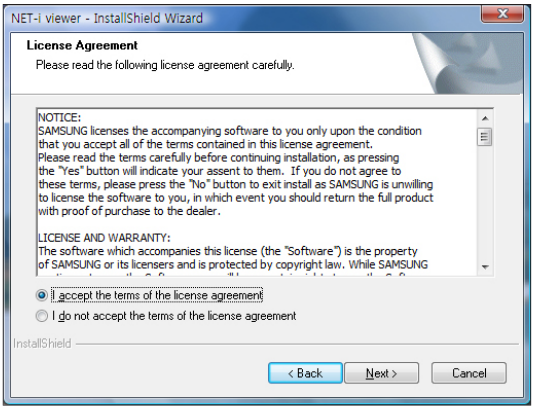
2. Click [**Next >**] to proceed to the License Agreement page.



Welcome to the InstallShield Wizard for NET-i viewer

The InstallShield Wizard will install NET-i viewer on your computer. To continue, click Next.

3. After reading the license agreement carefully, accept it by selecting "**I accept the terms of the license agreement**" and click [**Next >**] to proceed to the next step.



License Agreement

Please read the following license agreement carefully.

NOTICE:
SAMSUNG licenses the accompanying software to you only upon the condition that you accept all of the terms contained in this license agreement.
Please read the terms carefully before continuing installation, as pressing the "Yes" button will indicate your assent to them. If you do not agree to these terms, please press the "No" button to exit install as SAMSUNG is unwilling to license the software to you, in which event you should return the full product with proof of purchase to the dealer.

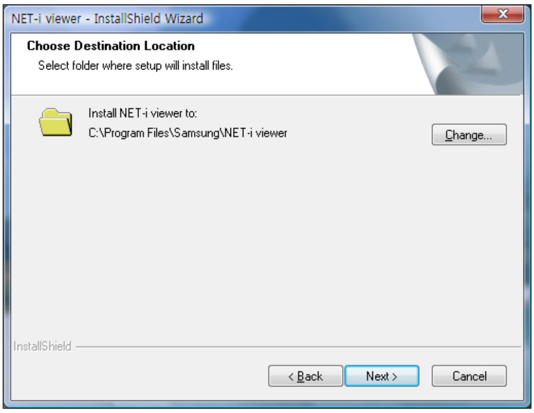
LICENSE AND WARRANTY:
The software which accompanies this license (the "Software") is the property of SAMSUNG or its licensers and is protected by copyright law. While SAMSUNG

● I accept the terms of the license agreement

○ I do not accept the terms of the license agreement

Installation

4. Specify the destination folder in which the installation files are copied.
   The default path is **"C:\Program Files\Samsung\NET-i viewer"**.
5. To change the file path, click [**Change…**] to select a desired path.
6. To proceed with the next step, click [**Next>**].



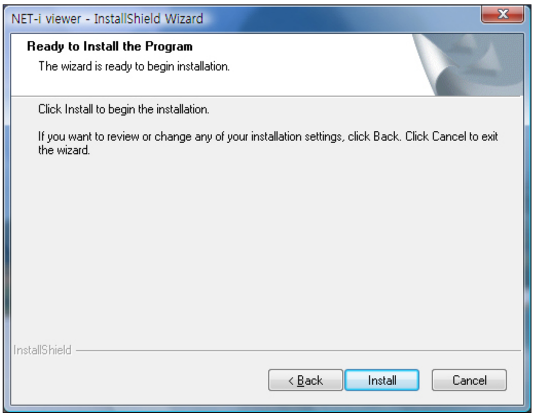
NET-i viewer - InstallShield Wizard

Choose Destination Location

Select folder where setup will install files.

Install NET-i viewer to:
C:\Program Files\Samsung\NET-i viewer

7. Click [**Install**].
   This will prepare to install the program.



NET-i viewer - InstallShield Wizard

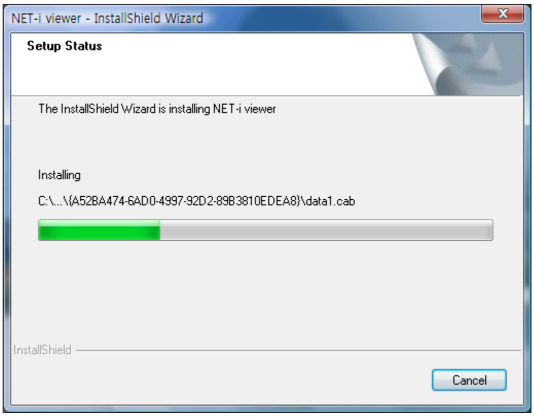
Ready to Install the Program

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

8. Installation of NET-i viewer gets started.
   An installation success or failure message appears.



NET-i viewer - InstallShield Wizard

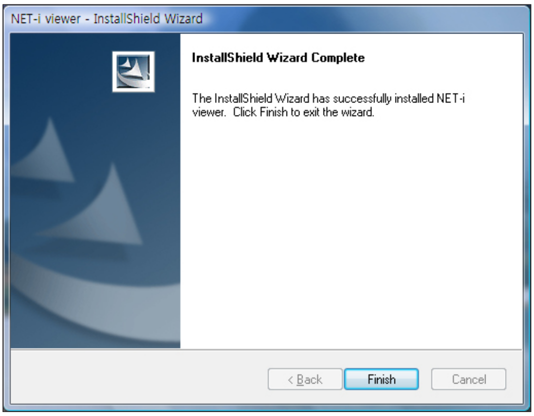
Setup Status

The InstallShield Wizard is installing NET-i viewer

Installing

C:\...\{A52BA474-6AD0-4997-92D2-89B3810EDEA8}\data1.cab

9. If the installation is completed successfully, click [**Finish**].
   End the installation procedure.



NET-i viewer - InstallShield Wizard

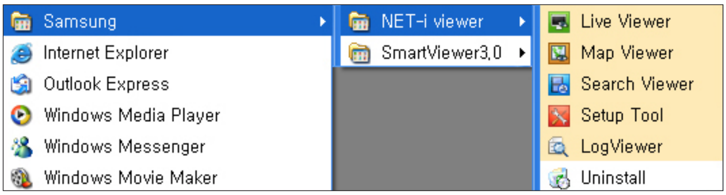
InstallShield Wizard Complete

The InstallShield Wizard has successfully installed NET-i viewer. Click Finish to exit the wizard.

< Back
Finish
Cancel

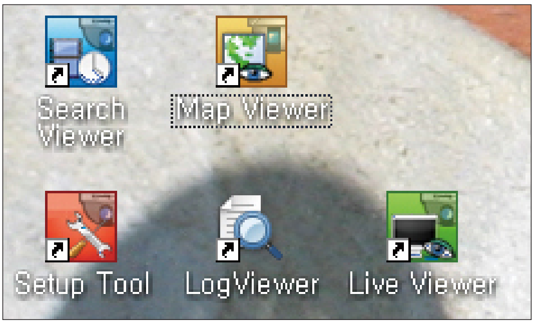
CHECKING INSTALLATION

To check whether NET-i viewer is installed successfully or not, move to Start menu.



Samsung
Internet Explorer
Outlook Express
Windows Media Player
Windows Messenger
Windows Movie Maker
NET-i viewer
SmartViewer3.0
Live Viewer
Map Viewer
Search Viewer
Setup Tool
LogViewer
Uninstall

1. Click [**Start**].
2. Click the [**Samsung**] folder.
3. Click the [**NET-i viewer**] folder.
   If you can find 6 sub menu items of Live Viewer, Map Viewer, Search Viewer, Setup Tool, LogViewer and Uninstall, the installation is done successfully.
4. Or, check if the four icons corresponding to the sub menus above are displayed on the screen.



Search Viewer
Map Viewer
Setup Tool
LogViewer
Live Viewer

- When you run the program for the first time, The NET-i viewer language is defaulted to that of the current operating system.
- When a message such as “**Restarts the computer and completes installing the critical updates**” appears, restart your PC before installing NET-i viewer.
  If you install the viewer without restarting the system, it may not be installed properly.
- If you are prompted to restart the system for a proper installation, please restart the system then install NET-i viewer.
  If you install NET-i viewer without restarting the system, it may not be installed properly.
- You may fail to install the viewer due to an error from such as antivirus software using the real-time monitoring function.
  If you encounter this problem, deactivate the real-time monitoring function of the antivirus software and try again.

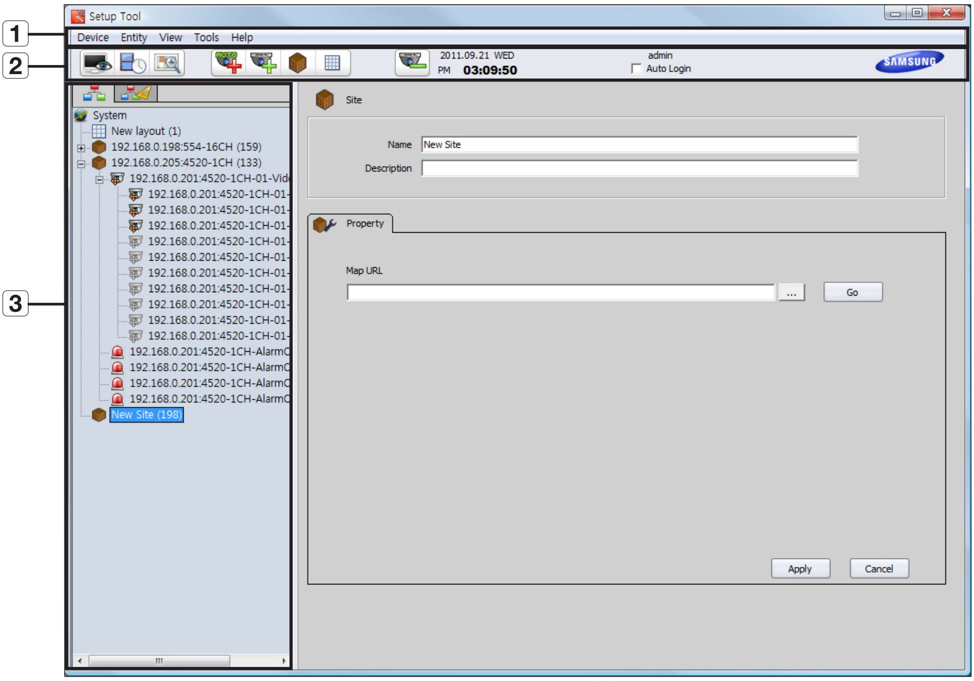
Setup Tool

With Setup Tool, you can configure basic settings for NET-i viewer.
Select Setup Tool from the Start menu, or double-click the corresponding shortcut icon to launch Setup Tool.

NAME AND FUNCTION OF EACH CONTROL

Setup Tool consists of 4 areas : menu bar, tool bar, view tree and property.

The tool bar is a collection of frequently used menu items that operate the same way in the menu bar


1
2
3
Setup Tool
Device Entity View Tools Help
2011.09.21 WED
PM 03:09:50
admin
☐ Auto Login
SAMSUNG
System
New layout (1)
192.168.0.198:554-16CH (159)
192.168.0.205:4520-1CH (133)
192.168.0.201:4520-1CH-01-Vid
192.168.0.201:4520-1CH-01-
192.168.0.201:4520-1CH-AlarmO
New Site (198)
Site
Property
Map URL
...
Go
Apply
Cancel

Name: New Site

Description:

Area	Item			Description
1 Menu	Device	Connect		You can connect to the selected device.
		Disconnect		You can disconnect from the selected device.
		Device Firmware Update		Upgrades the firmware version of the selected device.
		Import / Export Device configurations		Import the configuration of the device as a file in a remote location. Then, update the configuration of the set using the imported configuration file.
		Device Setup		Moves to the Device Setup page.
		Exit		Exits the Setup Tool program.
	Entity	Create	Device (Auto)	Searches for devices installed in a local network automatically and displays them in a list.
			Device (Manual)	Register a device that does not support auto scan.
			Site	Use this to create a site. With Site, you can manage cameras, alarms and layouts by the region. You can set a camera, alarm, layout or site as a child of a site in Setup Tool. You can specify a map to a site.
			Layout	You can choose one from 13 tile patterns to create a desired layout.
		Rename		Use this to rename the selected entity.
		Clear		Use this to delete the selected entity.
	View	Logical View		Activates the Logical View tab.
		Physical View		Activates the Physical View tab.
		Sort Entities	Name	Sort items by the name.
			Type > Name	Sort items with the type in priority over the name.
			Type > ID	Sort items with the type in priority over the ID.
		Expand Tree		Expands all nodes of a tree view.
		Collapse Tree		Collapses all nodes of a tree view.
		Refresh Tree		Updates the tree information.
	Tools	Live Viewer		Launches Live Viewer.
		Search Viewer		Launches Search Viewer.
		Map Viewer		Launches Map Viewer.
		Find Object		Enter the name of a tree entity to find.
	Help	Information		You can check the current version of Setup Tool.
		Help		It will be supported later.

Setup Tool

Area	Item		Description
2 Tool bar	Live Viewer		This function is the same as [Tools] > [Live Viewer] menu.
	Search Viewer		This function is the same as [Tools] > [Search Viewer] menu.
	Map Viewer		This function is the same as [Tools] > [Map Viewer] menu.
	Device (Auto)		This function is the same as [Item] > [Create] > [Device(Auto)] menu.
	Device (Manual)		This function is the same as [Item] > [Create] > [Device(Manual)] menu.
	Site		This function is the same as [Item] > [Create] > [Site] menu.
	Layout		This function is the same as [Item] > [Create] > [Layout] menu.
	Delete Device		This function is the same as [Item] > [Delete] menu.
	Login Information		Shows the user account that is currently logged in.
	Auto Login Checkbox		Determine if you perform the login process automatically or manually. If checked, the program will be executed automatically; if not, a login dialog appears to ask for your input.
3 View Tree	Logical View	Tree area	Shows cameras, sites and layouts. Using a site, you can group and view cameras by the region.
		Option	Recording File Path Snapshot File Path Logo Image File Path Snapshot File Extension (JPEG/BMP) Instant Replay Time (5/10sec) Sequence Time (10~60sec) Language You can change the size and color of a tile text to your preference. Specify the saving path, recording time(2min~24hr) and file format for the manual recording file. You can select to fix the aspect ratio of the video. Also select to display the intelligent video analysis rules on the video. Select to display the video time on the video. You can replace the camera title with the device name. You can select to keep receiving the video from the remaining channels in Expand Tile mode.
		Initialize	Resets the device properties and user information to the default.
		Export	Exports NET-i viewer settings as a file.
		Import	Configures NET-i viewer settings using the setup file.

Area	Item		Description
3 View Tree	Logical View	Audio	You can configure audio settings. Determine whether to allow both Listen and Talk, or either Listen and Talk at a time.
		Event	Select to output the audio signal from NET-i Viewer if an event occurs. You can set time option to be used to play video recorded at the event-occurred time by selecting an event item in the event log. You can select to display the event tile. You can set to automatically display the Live video for an event.
		Map Viewer	You can set the Save Path, Default View, and Arrangement for Map Viewer.
		Updater	And you can also run the Updater tool or set to perform Automatic Updates or just do the update manually.
		User Account Management	You can change the password for the Admin, operator or user account.
		System Log	You can specify the log storage period and the logs to store, delete certain logs or view the log folder using the browser.
	Physical View		Shows devices and cameras. You can check physical relations between device and camera.

Setup Tool

USER LOGIN

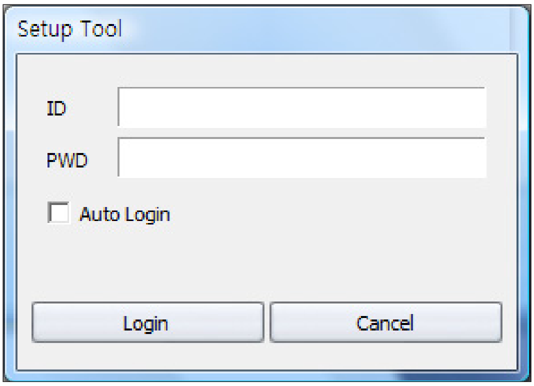
You can set to automatically log into NET-i viewer when you run utilities of Setup Tool, Live Viewer, Map Viewer, and Search Viewer.

Auto Login

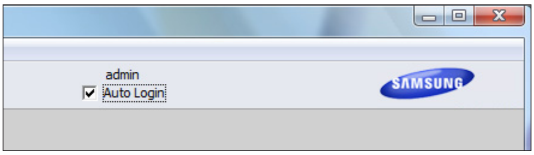
1. When you first run the program, you will see the login dialog if [**Auto Login**] is not set whereas you can log in automatically if it is set.
   If auto login fails, the user login dialog will appear.
2. If you launch another program while a program is running, you can login automatically with the same account.
   - If you fail to login due to lack of permission, the newly launched program will be terminated.
3. If you run a different program while the login dialog lasts, the current program will be terminated automatically.
4. If you want to login with a different account, exit all currently running programs and try again.

Login

1. Run the program.
   The login dialog appears.
   - If the last run viewer had been set to [**Auto Login**] when it was closed, the [**Auto Login**] checkbox is already ticked.
2. Enter the user ID and password (PWD), then click [**Login**].
   Click [**Cancel**] to exit the program.



3. If you has logged in successfully, the login dialog disappears before the main window appears.
   The tool bar in the main screen displays the user information with the [**Auto Login**] checkbox ticked.



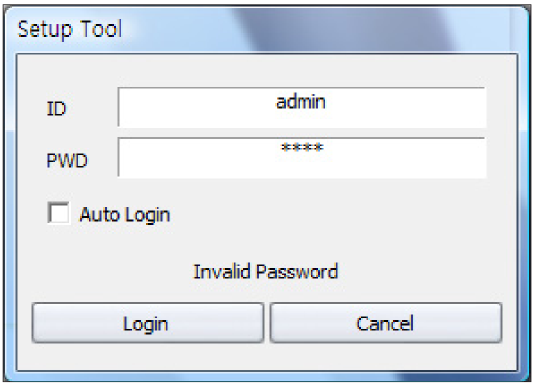
admin
☑ Auto Login

Login failure

An error message will be displayed in the lower corner of the dialog.
An error message appears if the login has failed.

Logout

You will be logged out automatically when you exit the program.



ID admin
PWD ****
☐ Auto Login

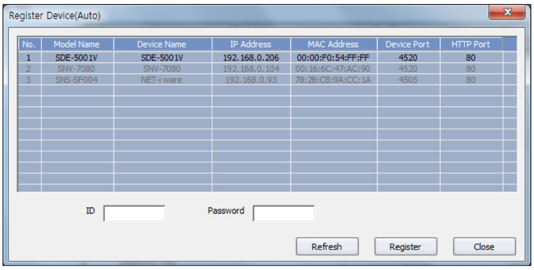
Invalid Password

REGISTERING DEVICES

You can register a new device with NET-i viewer, change or delete an existing device.

Device (Auto) Register

1. From the menu bar, select [**Entity**] > [**Create**] > [**Device (Auto)**], or select [ ] from the tool bar. The "**Device (Auto) Registration**" window appears.
   - This will find all devices that are connected to the local network.
   - A registered device is highlighted gray.
   - Auto registration may not be available, depending on the device.

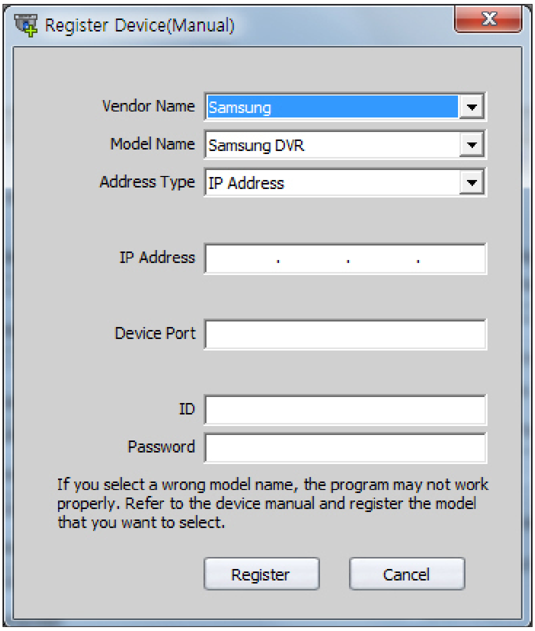


No.	Model Name	Device Name	IP Address	MAC Address	Device Port	HTTP Port
1	SDE-5001V	SDE-5001V	192.168.0.206	00:00:F0:54:FF:FF	4520	80
2	SNV-7080	SNV-7080	192.168.0.104	00:16:6C:47:AC:90	4520	80
3	SNS-SF004	NET-i ware	192.168.0.93	78:2B:CB:9A:CC:1A	4505	80

2. Select a device to register from the found devices.
3. Provide the device ID and password, and click [**Register**].
   For the initial device information (ID & PW), refer to the user manual of the unit.
   - Refresh : Re-searches for devices that are connected to the network.
   - Close : Closes the REGISTER window.
   - Edit : You can change the registration information if the IP and port number of a device is changed.
     - If you select an already registered device, the [**Register**] button will switch to [**Edit**].
4. If an error occurs in registration, the corresponding error message appears.
   - For more information, refer to the error list. (► page 18)
5. The registered device, camera or alarm out will be displayed in the physical/logical view.

Device (Manual) Register

1. Select [**Entity**] > [**Create**] > [**Device(Manual)**], or click [ ] in the tool bar.
   The "**Device (Manual) Register**" window appears.
2. Select a company name, model name, and address type, respectively.
   - Not supported: SVR-470/450/940, SRD-450, SHR-3040
3. Specify setting values necessary for connecting the device.
   - The setting values may differ, depending on the company name, model name and address type.
   - The MAC address may be required, according to the firmware version of the device to register.
4. Provide the device ID and password, and click [**Register**].
   - For the initial device information (ID & PW), refer to the user manual of the unit.
   - The device information includes the ID and password that you specified for the device to add.



Vendor Name: Samsung
Model Name: Samsung DVR
Address Type: IP Address

If you select a wrong model name, the program may not work properly. Refer to the device manual and register the model that you want to select.

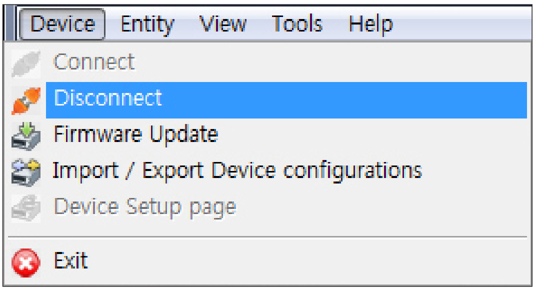
5. If an error occurs in registration, the corresponding error message appears.
   - For more information, refer to the error list below.

Error Message	Description
Unused Device	This is a unknown device.
Parameter Error	The registration parameter is invalid.
Disconnected	The device is not connected.
Not Connected	The device is not connected to the network.
Network Error	The network connection is not in normal status.
Wrong Address	The network address is not specified properly.
ID error	The entered ID is invalid.
Wrong Password	You entered an invalid password.
Log-In Fail	The log-in operation has failed.
Access Conflicted	A network access conflict occurred.
Exceed the Fixed Number of People	Exceeds the limit of accessible users.
Authority Error	Failed to grant user permissions.
Can not receive the Device's Response.	The system can not receive responses from the device.
MAC Address Conflicted	A duplicate MAC address exists.
IP Address Conflicted	A duplicate IP address exists.
Mismatched Device Model	This error occurs if you try to register a wrong model.
Unknown Error	A unknown error has occurred.

6. If you register a device, the logical tree will create a site for the device accordingly so that you can identify between devices at a glance.
   However, if you delete a device, the site for the device will not be deleted accordingly. So you must delete it manually, if necessary.

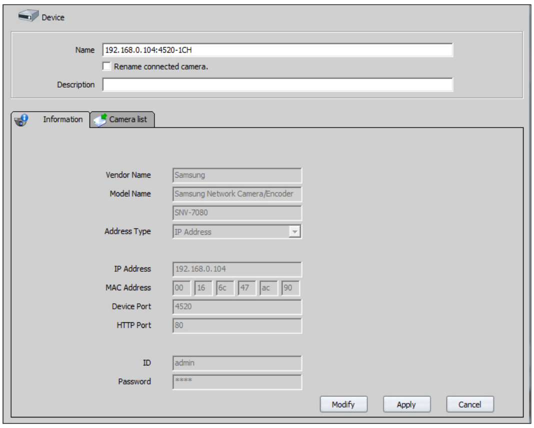
TO CONNECT TO A DEVICE

1. Select a device to connect.
2. Select a device, then select [**Device**] > [**Connect**], or [**Disconnect**].
   - The device that you set to disconnect will not be reconnected, even if you try to reconnect.
   - Devices that you set to disconnect, and devices that you failed to connect can be identified with icons.
   - You can set to disconnect a particular device even when the device is already disconnected.


Device
Entity
View
Tools
Help
Connect
Disconnect
Firmware Update
Import / Export Device configurations
Device Setup page
Exit

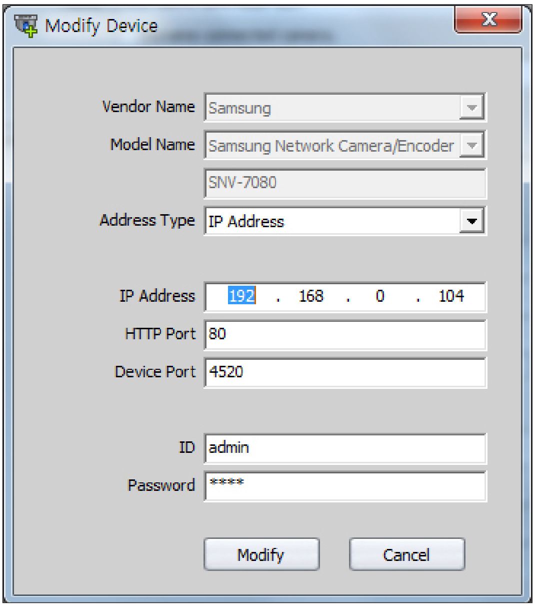
To edit device information

1. In the [**Physical View**] tab, select the corresponding icon of the device of which settings you want to change.
2. Click [**Modify**] in the Device Setup window. The [**Modify Device**] window appears.


Device
Information
Camera list
Modify
Apply
Cancel

Name: 192.168.0.104:4520-1CH
☐ Rename connected camera.
Description:
Vendor Name: Samsung
Model Name: Samsung Network Camera/Encoder
SNV-7080
Address Type: IP Address
IP Address: 192.168.0.104
MAC Address: 00 16 6c 47 ac 90
Device Port: 4520
HTTP Port: 80
ID: admin
Password: ****

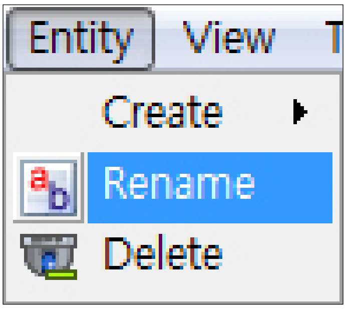
3. Change the settings as you want, and click [**Modify**].
   - None of the company name, model name and MAC address can be changed.
4. To cancel the change, click [**Cancel**].


Modify Device
Modify
Cancel

Vendor Name: Samsung
Model Name: Samsung Network Camera/Encoder
SNV-7080
Address Type: IP Address
IP Address: 192 . 168 . 0 . 104
HTTP Port: 80
Device Port: 4520
ID: admin
Password: ****

To rename a device

You can select and rename a device, camera or alarm object.



1. Select a device to rename.
2. In the menu bar, select [**Entity**] > [**Rename**].
   Or, select [**Rename**] in the context menu.
3. Rename the device as necessary.

To rename a device Unit

1. Select a device icon in the physical view tree.
2. In the properties window, select the "**Rename the connected cameras**" checkbox.
3. Rename the device and click [**Apply**].
   The change will apply to all cameras and alarm objects belonging to the device.
   As the camera name or alarm object name contain the device name as portion, this portion will be affected.

To delete a device

You can delete a device, camera or alarm object to your preference.

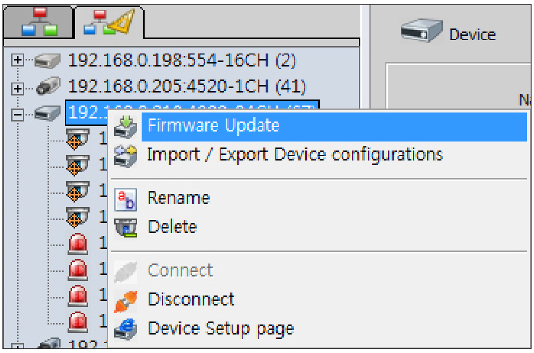
Actually, deletion is done by the device unit.

1. Select a device or camera in the tree.
2. In the menu bar, select [**Entity**] > [**Delete**], or select [**Delete Device**] in the tool bar.
   Or, in the context menu of the entity to delete, select [**Delete**].
3. The selected device or camera will be removed from the tree.
   All recording data related to the camera to delete will be lost.
   While the camera to delete is playing or recording, the operation will be forcibly stopped.

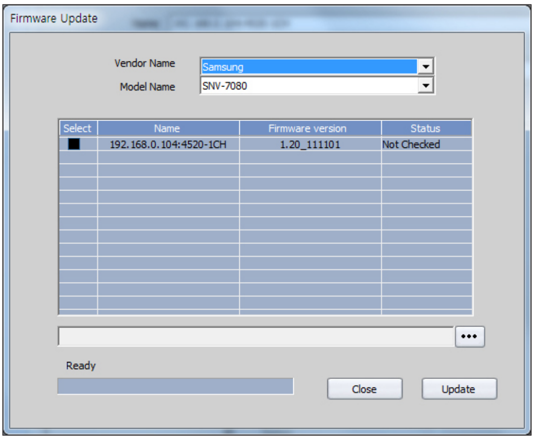
TO UPDATE THE FIRMWARE

You can update the firmware of a device in a remote site.

1. Select [**Device**] > [**Firmware Update**] in the menu bar, or right-click a device in the tree and select [**Firmware Update**] in the context menu.


Device
192.168.0.198:554-16CH (2)
192.168.0.205:4520-1CH (41)
Firmware Update
Import / Export Device configurations
Rename
Delete
Connect
Disconnect
Device Setup page

2. Select a company name and model name to update.
   The matches will be listed.
3. Click [**Select**] for each of the devices to update.
4. Click [•••] to select a firmware file.
5. Click [**Update**].
   This will start updating the device's firmware.


Firmware Update
•••
Close
Update

Vendor Name: Samsung
Model Name: SNV-7080

Select	Name	Firmware version	Status
■	192.168.0.104:4520-1CH	1.20_111101	Not Checked

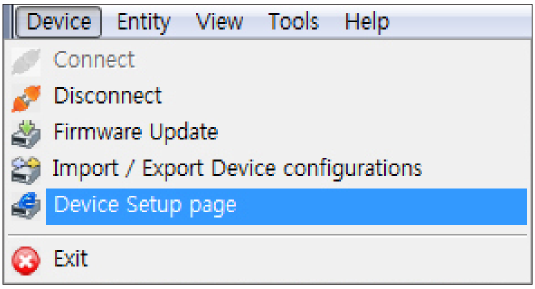
Ready

- If there is more than one device to update the firmware, update will be done one after another from the top.
  When the device is updated successfully, the [**Status**] bar will switch to [**Complete**].
  Any other functions will be disabled during the update.
  If the firmware update fails for any reason, the tool proceeds with the next device.

To view the device setup

You can check device settings for each device site.

1. Select [**Device**] > [**Device Setup**] in the menu bar, or right-click a device in the View Tree area and select [**Device Setup**] in the context menu.

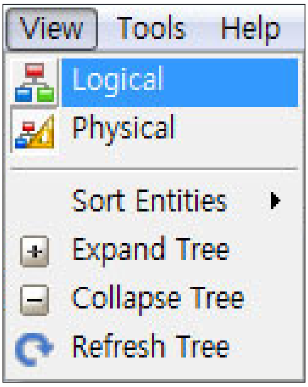

Device
Entity
View
Tools
Help
Connect
Disconnect
Firmware Update
Import / Export Device configurations
Device Setup page
Exit

- Logging on as a general user account of OS and running the [**Device Setup page**] may not operate properly.
  To run [**Device Setup page**] properly, log on as the administrator account of your OS.

TO SELECT A VIEW TREE

Select and use appropriate view tree from two views provided by the NET-i viewer.

Select [**View**] > [**Logical**], or [**Physical**], or select a desired tab in the View Tree area.
You will move to the selected View Tree.

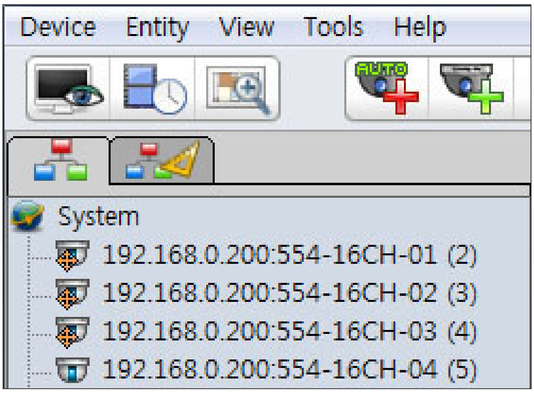

View
Tools
Help
Logical
Physical
Sort Entities
Expand Tree
Collapse Tree
Refresh Tree

Logical View Tree

You can map cameras, alarm outs, layouts, and sites with a particular site.

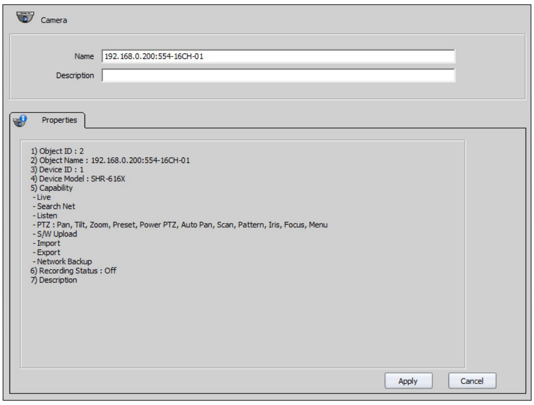
The logical view does not list devices.

1. Select the first tab in the View Tree area, or select [**View**] > [**Logical**] in the menu bar.


Device
Entity
View
Tools
Help
AUTO

System
192.168.0.200:554-16CH-01 (2)
192.168.0.200:554-16CH-02 (3)
192.168.0.200:554-16CH-03 (4)
192.168.0.200:554-16CH-04 (5)

2. You can customize the View Tree using the drag-drop method of tree items.


Camera
Properties
Apply
Cancel

Name: 192.168.0.200:554-16CH-01
Description:

1) Object ID : 2
2) Object Name : 192.168.0.200:554-16CH-01
3) Device ID : 1
4) Device Model : SHR-616X
5) Capability
- Live
- Search Net
- Listen
- PTZ : Pan, Tilt, Zoom, Preset, Power PTZ, Auto Pan, Scan, Pattern, Iris, Focus, Menu
- S/W Upload
- Import
- Export
- Network Backup
6) Recording Status : Off
7) Description

View Tree Configuration

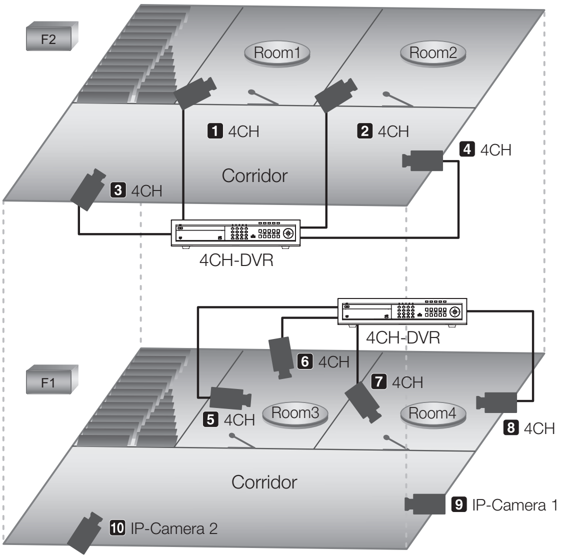

F2
Room1
Room2
1 4CH
2 4CH
4 4CH
Corridor
3 4CH
4CH-DVR
4CH-DVR
6 4CH
7 4CH
F1
5 4CH
Room3
Room4
8 4CH
Corridor
9 IP-Camera 1
10 IP-Camera 2

Figure 1

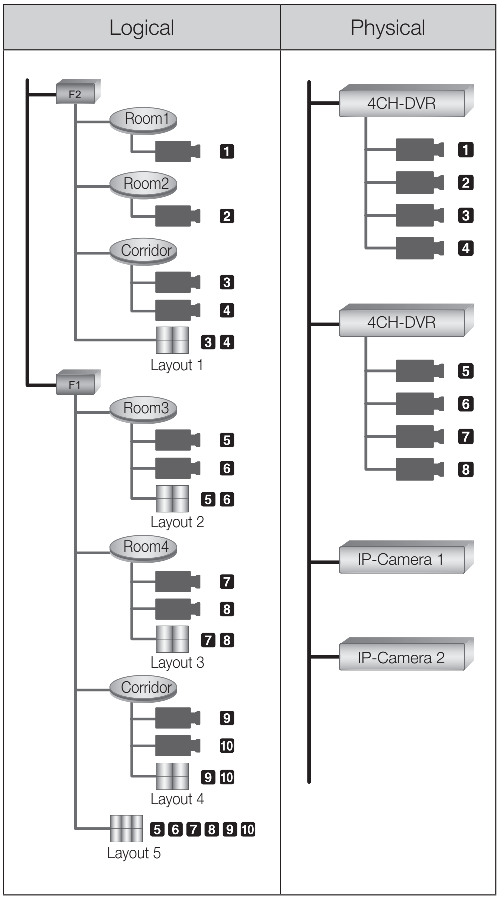

Logical
Physical
F2
Room1
1
Room2
2
Corridor
3
4
3 4
Layout 1
F1
Room3
5
6
5 6
Layout 2
Room4
7
8
7 8
Layout 3
Corridor
9
10
9 10
Layout 4
5 6 7 8 9 10
Layout 5
4CH-DVR
1
2
3
4
4CH-DVR
5
6
7
8
IP-Camera 1
IP-Camera 2

Figure 2

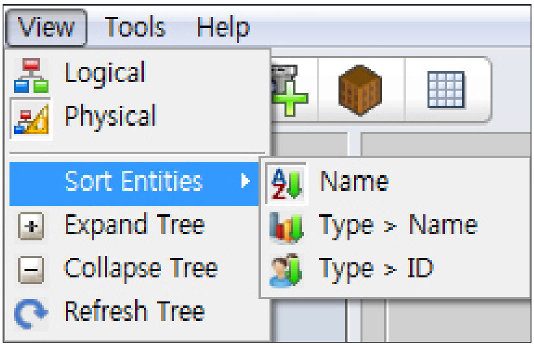
If you image a two-story building equipped with two 4-channel DVRs (one for each floor) and 2 network cameras as shown in figure 1, the logical view can be configured as shown in figure 2.

- You can select Layout 1 to monitor 4 cameras in the second floor at a glance.
- You can select Layout 2 to monitor cameras in Room 3 on the first floor on a single screen.
- You can select Layout 5 to monitor cameras on the first floor on a single screen.
- You can select Floor 2 to check the location of the second-floor's map and cameras on it.
  - This is available only with a user-created map.
- You can select Floor 1 to monitor all cameras on the first floor at a glance.

- As the physical view displays the physical relations between camera and device, it can not be changed.

USING VIEW TREES

Sort Entities


View
Tools
Help
Logical
Physical
Sort Entities
Expand Tree
Collapse Tree
Refresh Tree
Name
Type > Name
Type > ID

You can sort View Tree entities by the name or type.

Sort by name
From the menu bar, move to [**View**] > [**Sort Entities**] > [**Name**].

Sort the items in the alphanumeric order.

Sort with the tile in priority over the name
From the menu bar, move to [**View**] > [**Sort Entities**] > [**Type > Name**].

Sort items with the type in priority over the name.

Sort by tile in priority over ID
From the menu bar, move to [**View**] > [**Sort Entities**] > [**Type > ID**].

Sort items with the type in priority over the ID.

- Right-click any area in the View Tree area and select a desired item in the context menu.

Expand/Collapse Tree

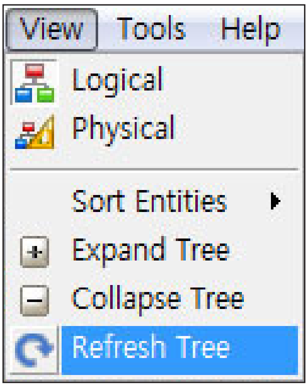
In the menu bar, select [**View**] > [**Expand Tree**], or [**Collapse Tree**].

This will show or hide all tree nodes.

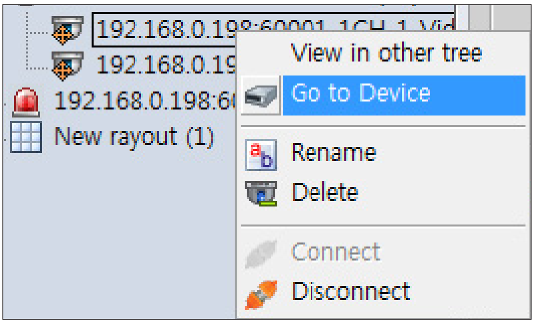
Refresh Tree

In the menu bar, select [**View**] > [**Refresh Tree**], or right-click any area in View Tree and select a desired item in the context menu.

The tree will be updated with latest data.


View
Tools
Help
Logical
Physical
Sort Entities
Expand Tree
Collapse Tree
Refresh Tree

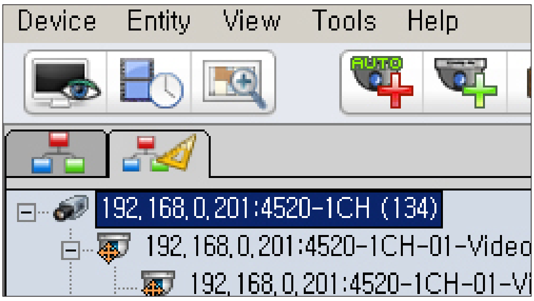
To find a device in different view trees


192.168.0.198:60001_1CH_1_Vid
192.168.0.19
192.168.0.198:6
New rayout (1)
View in other tree
Go to Device
Rename
Delete
Connect
Disconnect

1. In the Logical View Tree, select a camera or alarm out.
2. Right-click it and select [**Go to Device**] in the context menu.
   The icon of the selected device will be displayed selected in the Physical View Tree.
3. If you select a camera or alarm out in the Logical or Physical View Tree, and right-click it to select [**View in other tree**] in the context menu, the icon of the selected device will be displayed 'selected' in the other View Tree.

Physical View Tree

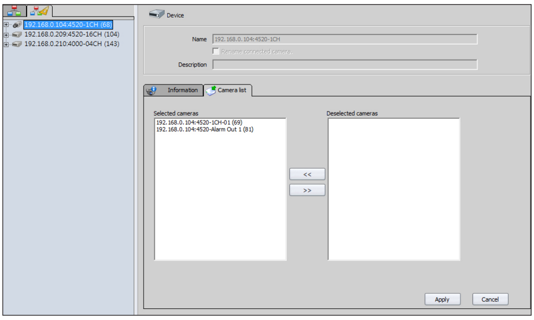
This tree displays only icons of the corresponding devices, cameras and alarm outs, with which you can check physical relations with each other.


Device
Entity
View
Tools
Help
AUTO
192.168.0.201:4520-1CH (134)
192.168.0.201:4520-1CH-01-Video
192.168.0.201:4520-1CH-01-Vi

Camera List

You can select to hide the cameras or alarm-outs from the tree.

To select a desired camera only


Device
Information
Camera list
<<
>>
Apply
Cancel

192.168.0.104:4520-1CH (68)
192.168.0.209:4520-16CH (104)
192.168.0.210:4000-04CH (143)

Name 192.168.0.104:4520-1CH

☐ Rename connected camera.

Description

Selected cameras
192.168.0.104:4520-1CH-01 (69)
192.168.0.104:4520-Alarm Out 1 (81)

Deselected cameras

1. From the tree, select ones that you want to exclude from the selected cameras.
2. Click [>>] to move them to "Unselected cameras".
3. Click [**Apply**].

- You must exit all other viewers when editing the camera list.
- The camera list settings are applied the same to all viewers.

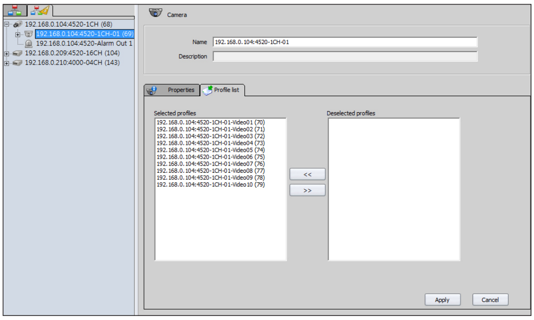
Profile List

You can opt to hide a specific profile of a camera from the tree.

To view only the profiles of your choice

1. Select the profiles of a selected camera to exclude from the tree view.
2. Click [>>] to move them to “Unselected profiles”.
3. Click [**Apply**].

- You must exit all other viewers when editing the profile list.
- The profile list settings will be applied the same to all viewers.


Camera
Properties
Profile list
Selected profiles
Deselected profiles
<<
>>
Apply
Cancel

192.168.0.104:4520-1CH (68)
192.168.0.104:4520-1CH-01 (69)
192.168.0.104:4520-Alarm Out 1
192.168.0.209:4520-16CH (104)
192.168.0.210:4000-04CH (143)

Name 192.168.0.104:4520-1CH-01
Description

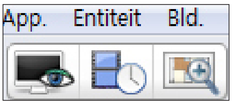
192.168.0.104:4520-1CH-01-Video01 (70)
192.168.0.104:4520-1CH-01-Video02 (71)
192.168.0.104:4520-1CH-01-Video03 (72)
192.168.0.104:4520-1CH-01-Video04 (73)
192.168.0.104:4520-1CH-01-Video05 (74)
192.168.0.104:4520-1CH-01-Video06 (75)
192.168.0.104:4520-1CH-01-Video07 (76)
192.168.0.104:4520-1CH-01-Video08 (77)
192.168.0.104:4520-1CH-01-Video09 (78)
192.168.0.104:4520-1CH-01-Video10 (79)

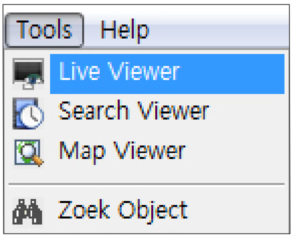
RUNNING OTHER VIEWER

You can run other NET-i viewer viewer right on the current screen.

Select [**Tools**] > application in the menu bar, or click a button corresponding to the application in the tool bar.

- For more information, refer to the user guide of the applicable device.


App.
Entiteit
Bld.

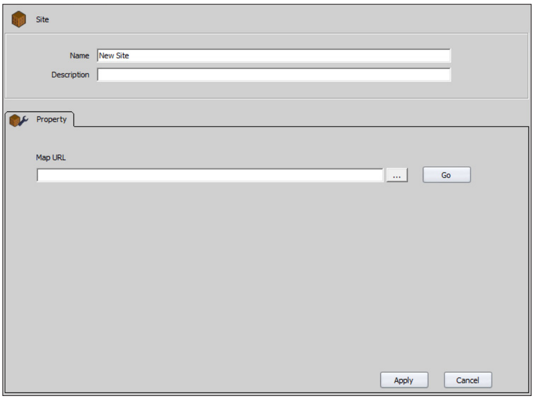

Tools
Help
Live Viewer
Search Viewer
Map Viewer
Zoek Object

SITE MANAGEMENT

As you can group cameras and alarm-outs by the area using Site in the Logical View Tree, you can find a particular camera with ease if there exist a number of registered cameras and, furthermore, you can create a map to load it to a site.

To create a site

Select [**Entity**] > [**Create**] > [**Site**] in the menu bar, or click [**Site**( )] in the tool bar.



Name: New Site
Description:

To edit a site

1. Select a site in the tree.
2. Enter a name, description and map URL.
   - You can rename the site using the [**F2**] shortcut.
3. Click [**Apply**].
4. To cancel your settings, click [**Cancel**].

To create a group

From the Logical View Tree, drag and drop camera or alarm icons to a particular group name.

To delete a site

1. Select a site in the tree.
2. Select [**Entity**] > [**Delete**] in the menu bar, or select [**Delete**] in the context menu.

To configure a map

1. Enter a URL for the map that you created.
   To find a map file in your PC, click [**Find File** (...)].
   - Only maps in the HTML format are supported.
2. Click [**Go**].
   You will move to the registered URL window.

Notice about setting up Map URL of the site

Please provide the address of the HTML file that you created for monitoring purposes.

- If you enter a web site address in the map URL bar and monitor the site using Live Viewer, you may experience unexpected problems, caused by undefined mutual operation between web site and Live Viewer. In particular, if an address of the HTML viewer for SNT-1010 video server or SCC-C6475 IP Smart Dome camera is provided, we can not guarantee that all functions available in the main screen of each device work properly.

- NET-i viewer provides two types of map :
  1) XML-based map : This is available in Map Viewer.
  2) HTML-based map : To use a map in Live Viewer, create a map by using the Map application provided by NET-i viewer package and register it with the site using Setup.
  - These two types of map are not compatible with each other.

LAYOUT MANAGEMENT

You can set to monitor videos from cameras that are installed in the same location, on a single screen.
- One layout can be configured with up to 64 videos or maps.

Create a layout where you can check the configuration information of cameras and sites belonging to the layout.

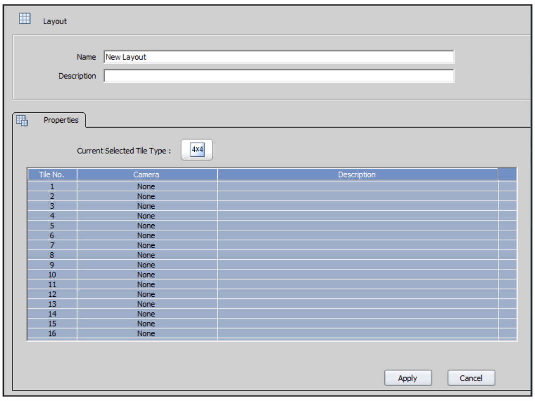
Use Live Viewer if you want to monitor the video while configuring the layout.

Configure the screen according to the area, which may help you find a specific area later.

To create a layout

From the menu bar, select [**Entity**] > [**Create**] > [**Layout**] or click [**Layout** (▦)] to select a desired tile pattern.

The created layout will be added to the Logical View Tree.



Name: New Layout

Description:

Current Selected Tile Type : 4x4

Tile No.	Camera	Description
1	None	
2	None	
3	None	
4	None	
5	None	
6	None	
7	None	
8	None	
9	None	
10	None	
11	None	
12	None	
13	None	
14	None	
15	None	
16	None	

To edit a layout

1. Select a layout in the tree.
2. Provide a name and description for the layout in the Setup window, and click [**Apply**].
   - To rename the layout, select [**Rename**] in the context menu, or use the [**F2**] shortcut.
   - From the menu bar, select [**Entity**] > [**Rename**].

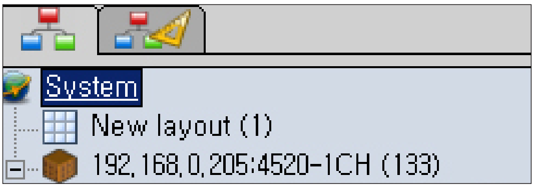
To delete a layout

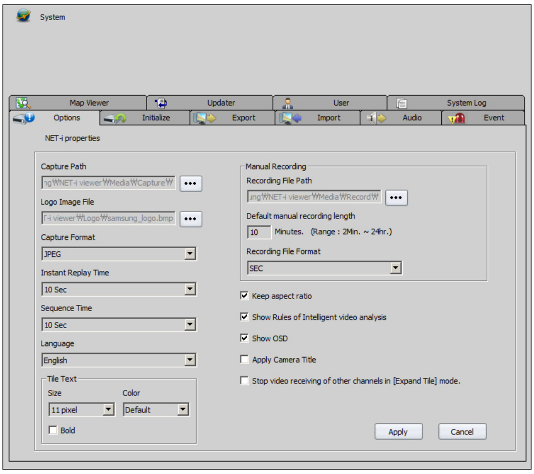
1. Select a layout to delete in the tree.
2. You can use the following methods to delete a layout :
   - From the menu bar, select [**Entity**] > [**Delete**].
   - Select [**Delete**] in the context menu.
   - Click [ ] in the tool bar.
   - Press the [**Delete**] key on the keyboard.

- If there exists just one layout, you can not delete it.
  The layout currently monitored in Live Viewer can be also deleted.
  - Refer to "**Live Viewer>Using Layouts**". (▶ page 49~50)

Option

1. Select [**System**] in the view tree.
2. Select the [**Options**] tab in the tree.
3. Specify each item as you need.





NET-i properties

Capture Path: ng₩NET-i viewer₩Media₩Capture₩

Logo Image File: T-i viewer₩Logo₩samsung_logo.bmp

Capture Format: JPEG

Instant Replay Time: 10 Sec

Sequence Time: 10 Sec

Language: English

Tile Text — Size: 11 pixel, Color: Default, ☐ Bold

Manual Recording

Recording File Path: ung₩NET-i viewer₩Media₩Record₩

Default manual recording length: 10 Minutes. (Range : 2Min. ~ 24hr.)

Recording File Format: SEC

☑ Keep aspect ratio

☑ Show Rules of Intelligent video analysis

☑ Show OSD

☐ Apply Camera Title

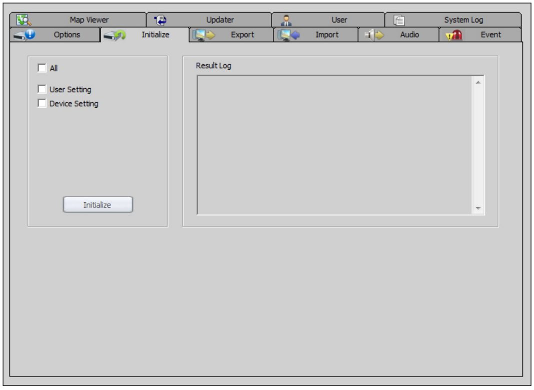
☐ Stop video receiving of other channels in [Expand Tile] mode.

- Manual Recording
  - When the manual recording starts, the recording file is created in the designated recording file path.
  - By default, the path is set to “Installation Path\Media\Record”.
- Image capture related settings
  - Capture Path : You can select path for saving captured files.
  - Capture Format : You can select capture format for the captured files. (BMP/JPEG)
- Logo Image File : You can enter your own logo image into the UI of NET-i viewer program. Set path for logo image to be used.
- Instant Replay Time : This setting is used by Instant Replay function. The recorded video is displayed from registered values of Instant Replay Time from the ending part of recorded video.
- Sequence Time : If Sequence is executed for layout in Live Viewer, layouts are displayed one by one in sequence. At this time, one layout is displayed for the time set by this setting.
- Language : You can select a language for the UI of NET-i viewer program.
- Tile text : You can change the font and color of a camera title that is displayed in the bottom of the video tile.
- Default manual recording length : Press the [**Record**] button in the viewer to specify the manual recording time. The allowed time range is between 2 minutes and 24 hours.
  - The default is 10 minutes.
- Keep aspect ratio : You can select aspect ratio for video playback in Tile. When checked, the videos are displayed with the source aspect ratio.
- Show Rules of Intelligent video analysis : You can select to display the smart video analysis rules over the video.
- Show OSD : Display the time and date of the current video
- Apply Camera Title : You can select to display the camera name as the device name.
- Stop video receiving of other channels in [Expand Tile] mode : The live viewer will release the reception of the video from the remaining channels in [**Expand Tile**] mode.

Initializing NET-i viewer Settings

You can restore NET-i viewer Settings to the default.

1. Select [**System**] in the view tree.
2. Select the [**Initialize**] tab in the tree.
3. Select an item to reset.
   - All : You can initialize all items.
   - User Setting : You can initialize user settings. The settings are set to the default values.
   - Device Setting : You can erase device settings. This option includes the initialization of Record Data.
4. Click [**Initialize**].
   If you reset [**User Setting**], the password will be reset to "**4321**", too.


Map Viewer
Updater
User
System Log
Options
Initialize
Export
Import
Audio
Event
☐ All
☐ User Setting
☐ Device Setting
Initialize
Result Log

- The default password can be exposed to a hacking thread so it is recommended to change the password after installing the product.
  Note that the security and other related issues caused by the unchanged password shall be responsible for the user.

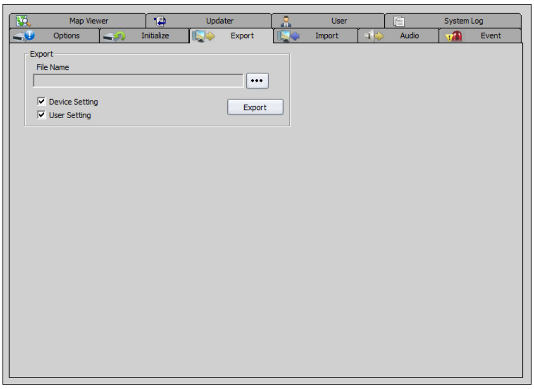
Importing/Exporting NET-i viewer Settings

You can export the device information, and user settings of NET-i viewer on the current PC to NET-i viewer installed on other PC.

Recording information can not be imported or exported.

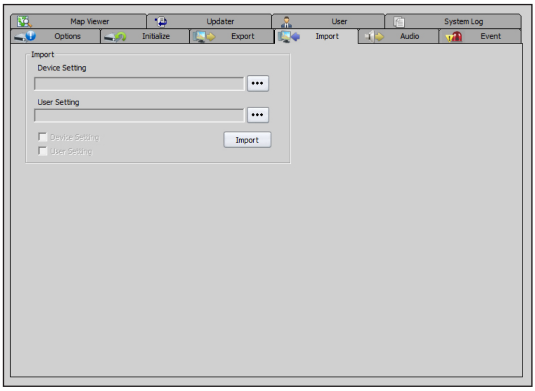
Export

1. Select [**System**] in the view tree.
2. Select the [**Export**] tab in the tree.
3. Click [•••] to specify a path to save the settings file.
4. Select an item from [**Device Setting**] and [**User Setting**].
   - Device Setting : Select this option to export device settings from the currently running NET-i viewer.
   - User Setting : Select this option to export user settings from the currently running NET-i viewer.
5. Click [**Export**].
   This will export the selected setting.


Map Viewer
Updater
User
System Log
Options
Initialize
Export
Import
Audio
Event
Export
File Name
•••
☑ Device Setting
☑ User Setting
Export

Import

You can import a setting file from other PC to the current NET-i viewer.

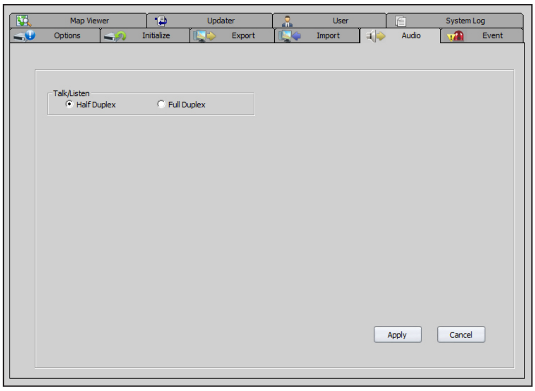

Map Viewer
Updater
User
System Log
Options
Initialize
Export
Import
Audio
Event
Import
Device Setting
User Setting
☐ Device Setting
☐ User Setting
Import

1. Select [**System**] in the view tree.
2. Select the [**Import**] tab in the tree.
3. Click [···] to specify a path to import the setting file.
4. Select an item from [**Device Setting**] and [**User Setting**].
   - Device Setting : Select a device file to import. You will see the [**Device Setting**] option checked by now.
   - User Setting : Select a user setting file to import.
     You will see the [**User Setting**] option checked by now.

- Unchecking this option will not execute [**Import**] even if a setting file is selected.

Audio

You can specify the audio transfer/reception mode.


Map Viewer
Updater
User
System Log
Options
Initialize
Export
Import
Audio
Event
Apply
Cancel

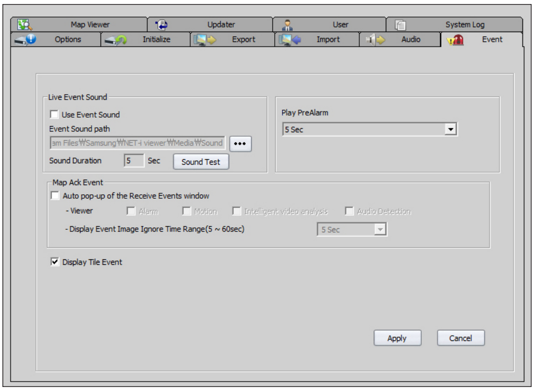
Talk/Listen
● Half Duplex ○ Full Duplex

1. Select [**System**] in the view tree.
2. Select the [**Audio**] tab in the tree.
3. Select one from [**Talk/Listen**].
   - Full Duplex : You can listen and talk simultaneously.
   - Half Duplex : You can either talk or listen at a time.
     That is, if you talk while listening, listening is automatically disabled and only taking is active.
4. Click [**Apply**].

Setup Tool

Event

You can set the NET-i viewer to produce event sound on events of Alarm, Motion, Intelligent Video Analysis.



Map Viewer
Updater
User
System Log
Options
Initialize
Export
Import
Audio
Event
Live Event Sound
Play PreAlarm
Map Ack Event
•••
Sound Test
Apply
Cancel

☐ Use Event Sound

Event Sound path: am Files₩Samsung₩NET-i viewer₩Media₩Sound

Sound Duration: 5 Sec

Play PreAlarm: 5 Sec

☐ Auto pop-up of the Receive Events window

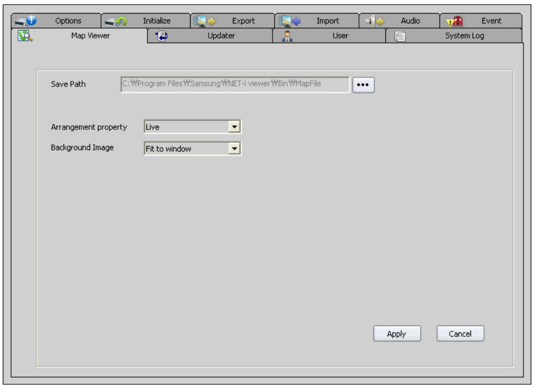
- Viewer ☐ Alarm ☐ Motion ☐ Intelligent video analysis ☐ Audio Detection

- Display Event Image Ignore Time Range(5 ~ 60sec): 5 Sec

☑ Display Tile Event

1. Select [**System**] in the view tree.
2. Select the [**Event**] tab.
3. Specify [**Live Event Sound**].
   - Use Event Sound : You can choose to use the event sound.
   - Event Sound Path : Specify a sound file path.
   - Sound Duration : Specify the sound duration.
   - Sound Test : Check the event sound.
4. Select [**Play PreAlarm**].
   You can view the video recorded at the alarm-occurred time by selecting an item from the Alarm tab in Alarm Message area of Live Viewer.
   This will show you the recorded video for as long as the preset time of Play PreAlarm from based on the alarm-triggered point.
5. Provide details as necessary in the [**Map Ack Event**] pane.
   You can select to automatically display the Live video for an event that occurs in the map viewer.
   You can select desired event from Alarm, Motion, Intelligent Video Analysis, and Audio Detection. If you encounter too frequent occurrence of events, you can specify the event ignorance time.
6. Check the [**Display Tile Event**] option.
   If this is checked, the tile of an event occurring from a monitoring camera will be highlighted in yellow.

Map Viewer



Options
Initialize
Export
Import
Audio
Event
Map Viewer
Updater
User
System Log
•••
Apply
Cancel

Save Path: C:₩Program Files₩Samsung₩NET-i viewer₩Bin₩MapFile

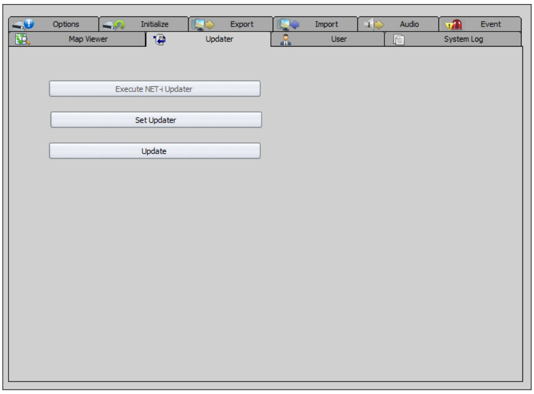
Arrangement property: Live

Background Image: Fit to window

1. Select [**System**] in the view tree.
2. Select the [**Map Viewer**] tab.
3. Click [•••] to specify a saving path.
4. Specify [**Arrangement Property**] and [**Background Image**], respectively.
   - Arrangement Property : You can specify the default image to display when you double-click on a camera icon in the map page of Map Viewer.
   - Background Image : You can decide how to arrange the specified background image in the map page.
5. Click [**Apply**].

Updater

1. Select [**System**] in the view tree.
2. Select the [**Updater**] tab.
3. Use the provided buttons to perform an update, or configure settings for the update.
    - Execute NET-i Updater : Executes NET-i viewer Updater program manually.
    - Set Updater : You can set to auto-update.
    - Update : You can immediately check updates.


Options
Initialize
Export
Import
Audio
Event
Map Viewer
Updater
User
System Log
Execute NET-i Updater
Set Updater
Update

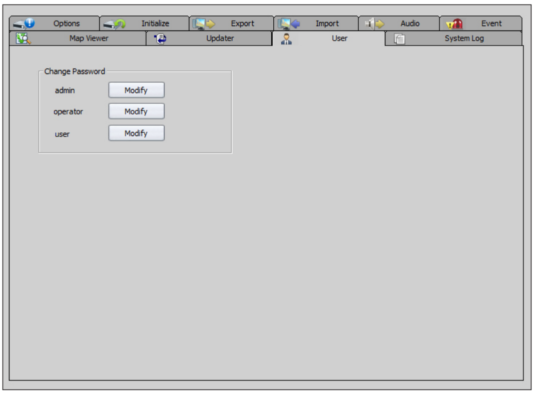
User

You can change the password of Admin, Operator, or User as needed.

The password change is applied from the next login.

Permissions with the account are as follows :

- admin : Can use all viewers with the complete functions.
- operator : Can use all viewers except for the Setup tool.
- user : Can use only Live Viewer, and functions such as user disconnection and manual recording are not allowed.

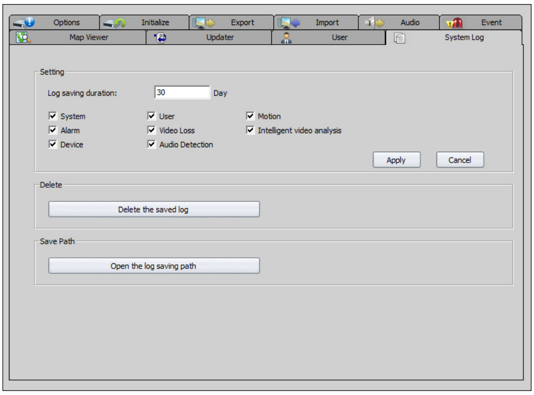

Options
Initialize
Export
Import
Audio
Event
Map Viewer
Updater
User
System Log
Change Password
admin
Modify
operator
Modify
user
Modify

- The default password is "**4321**" at installation or after initialization.
- You can enter up to 10 solely numeric characters for the password.

- The default password can be exposed to a hacking thread so it is recommended to change the password after installing the product.
Note that the security and other related issues caused by the unchanged password shall be responsible for the user.

System Log

- Log saving duration : You can specify the period for the logs to be stored.
- Select logs to store : Check the respective log items to store.
- Delete the saved log : Deletes all stored logs.
- Open the log saving path : The Windows Explorer shows you the path where the logs are stored.


Options
Initialize
Export
Import
Audio
Event
Map Viewer
Updater
User
System Log
Setting
Apply
Cancel
Delete
Delete the saved log
Save Path
Open the log saving path

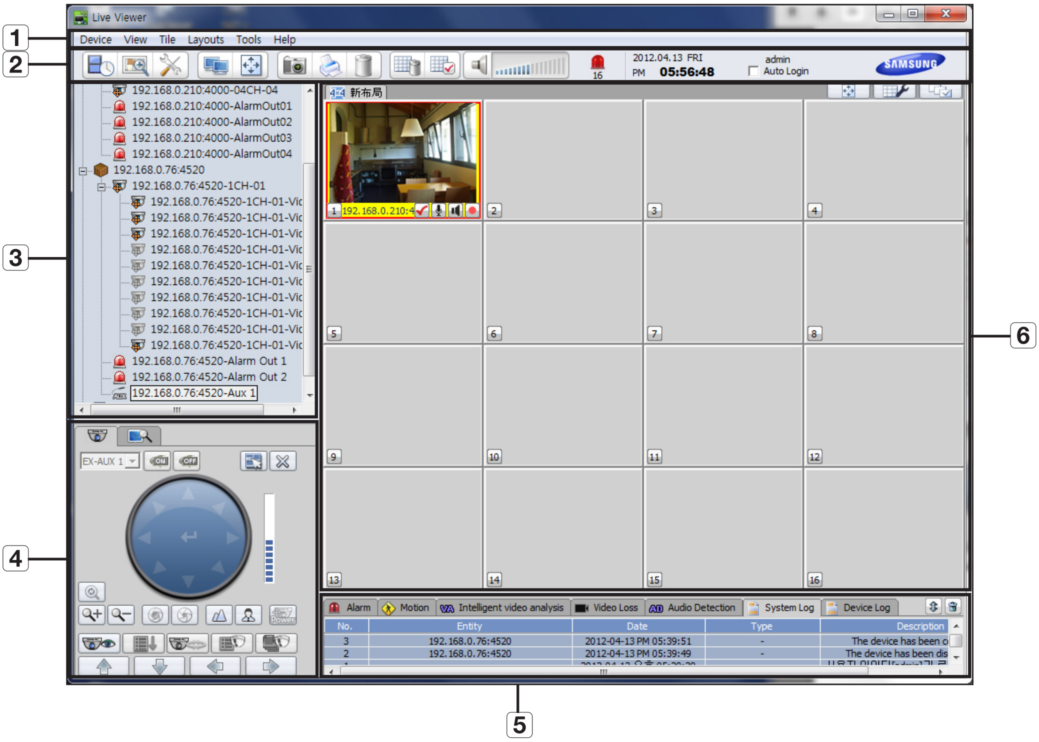
Log saving duration: 30 Day

☑ System ☑ User ☑ Motion
☑ Alarm ☑ Video Loss ☑ Intelligent video analysis
☑ Device ☑ Audio Detection

Live Viewer

You can monitor live videos and events from multiple cameras.

NAME AND FUNCTION OF EACH CONTROL


1
2
3
4
5
6
Live Viewer
Device
View
Tile
Layouts
Tools
Help
2012.04.13 FRI
PM 05:56:48
admin
Auto Login
SAMSUNG
192.168.0.210:4000-04CH-04
192.168.0.210:4000-AlarmOut01
192.168.0.210:4000-AlarmOut02
192.168.0.210:4000-AlarmOut03
192.168.0.210:4000-AlarmOut04
192.168.0.76:4520
192.168.0.76:4520-1CH-01
192.168.0.76:4520-Alarm Out 1
192.168.0.76:4520-Alarm Out 2
192.168.0.76:4520-Aux 1
新布局
EX-AUX 1
Alarm
Motion
Intelligent video analysis
Video Loss
Audio Detection
System Log
Device Log

No.	Entity	Date	Type	Description
3	192.168.0.76:4520	2012-04-13 PM 05:39:51	-	The device has been c
2	192.168.0.76:4520	2012-04-13 PM 05:39:49	-	The device has been dis

Area	Item		Description
1 Menu	Device	Connect	You can connect to each device.
		Disconnect	You can disconnect from each device.
		Exit	Exits Live Viewer.
	View	Camera Tree Window	Shows or hides the camera tree window.
		Camera Controls Window	Shows or hides the camera controls window.
		Messages Window	Shows or hides the message window.
		Tool bar	Shows or hides the tool bar.
		Expansion Monitor	You can select and add up to 3 expansion monitors.
		Full Screen	Enlarges the monitoring area in full screen.
	Tile	Remove the Selected Tile	Removes the selected Tile.
		Record Selected Tile(s)	Records the selected tile(s). (manual recording available)
		Remote record the selected tile	You can record the selected tile remotely.
		Capture	Captures the snapshot of the video of the selected tile when the button is pressed and saves it as a file. You can set the file path extension for the snapshot file in Setup Tool.
		Print	You can capture the video of the selected tile when the button and print it.
		Tile Expansion	Expands the selected tile or restores it to the original.
		Acknowledge Event	Cancels the alarm of the selected tile.
		Alarm Reset	Resets event of the selected device, and cancels alarm.
		Show Counting graph	You can view the counting graph that displays the counting status.
		PTZ Control	You can control the PTZ of the camera of the selected tile from a remote location.
		Digital Zoom	You can use digital zoom function for the cameras that do not support zoom function.
		Remove All	Deletes all the contents of the current layout. Video or map is deleted from the current layout.
		Ack All Tiles	Does Ack for all the tiles where alarm or motion occurs in the current layout.
	Layout	Insert	Adds a layout. You can create a layout or add an already created layout to the layout list of the monitor.
		Remove	Deletes the currently activated layout from the layout list of the activated monitor. However, you cannot delete it from the tree. You can delete it from the tree in Setup.
		Rename…	Renames a layout.
		Save	Saves changed layout configuration. You can change layout pattern and locate a particular camera on a particular tile.
		Save All	Saves the changes in all the layouts registered to the monitor.
		Reload	Refreshes layout list information by reading it from the DB.

Live Viewer

Area	Item		Description
1 Menu	Tools	Search Viewer	Launches Search Viewer.
		Map Viewer	Executes the Map Viewer.
		Setup Tool	Executes Setup Tool.
		Find Object	You can find an entity by name from the tree.
	Help	Information…	You can view the version of Live Viewer.
		Help	It will be supported later.
2 Tool Bar	Search Viewer		This function is the same as [Tools] > [Search Viewer] menu.
	Setup Tool		This function is the same as [Tools] > [Setup Tool] menu.
	Map Viewer		This function is the same as [Tools] > [Map Viewer] menu.
	Expansion Monitor		This function is the same as [View] > [Expansion Monitor] menu.
	Capture		This function is the same as [Tile] > [Save Snapshot] menu.
	Print		This function is the same as [Tile] > [Print Snapshot] menu.
	Remove the Selected Tile		This function is the same as [Tile] > [Remove] menu.
	Remove All		This function is the same as [Tile] > [Remove All] menu.
	Ack All Tiles		This function is the same as [Tile] > [View All Tile Event] menu.
	Volume		Volume Control, Mute
3 Camera Tree			You can view entities registered to NET-i viewer at a glance. You can select a camera and monitor real-time video. You can select an alarm, and generate or stop the alarm from a remote location.
4 Camera Control Area	PTZ Control	EX-AUX	You can control EX-AUX.
		8 Direction Buttons	You can pan or tilt a camera in 8 directions from a remote location.
		Enter Button	Use this to select a menu item in the camera menu mode.
		PTZ Speed Control	You can control the speed of panning and tilting in 8 directions.
		Switch to the Menu Mode	Use this to switch to Menu mode for a camera.
		Zoom in	Use this to enlarge a video.
		Zoom out	Use this to shrink a video.
		Open IRIS	Opens the IRIS.
		Close IRIS	Closes the IRIS.

Area	Item		Description
4 Camera Control Area	PTZ Control	Focus far	Adjusts the focus farther.
		Focus near	Adjusts the focus nearer.
		Power PTZ	You can control PTZ by clicking or dragging over a video.
		Area Zoom	Controls PTZ to fill the tile with the area selected by dragging on the screen.
		Original Size	Sets the zoom ratio to original x1.
		Preset	You can use the Preset function.
		Group/Scan	You can use the Group/Scan functions.
		Swing/Autopan	You can use the Swing/Autopan functions.
		Trace/Pattern	You can use the Trace/Pattern functions.
		Tour	You can use the Tour function.
	Digital Zoom	Zoom in	The video will be zoomed-in shrinking the selected area.
		Zoom out	The video will be zoomed-out expanding the selected area.
		Deselect	The selected area will be released.
5 Message Area	Alarm		You can check events (such as Alarm, Motion, Video Loss, Audio Detection and Intelligent Video Analysis) from the device. You can view the real-time screen from the camera that is generating the event. You can find the camera that is generating an event from the registered layout. You can promptly play back the recording of the event.
	Motion		
	Intelligent video analysis		
	Video Loss		
	Audio Detection		
	System Log		You can view failure reason when your request has been failed. You can view events occurred in NET-i viewer.
	Device Log		Shows events from devices other than alarm, motion and video loss events.
	Scroll Lock		Sets so that a list is not automatically scrolled. This is applied to alarm, motion, video loss, and system log tabs.
	Clear List		Deletes all the contents of the list. This is applied to alarm, motion, video loss, and system log tabs.
6 Monitoring Area	Edit layouts		You can add, modify and delete a layout.
	Sequence		Shows layouts registered to the monitor in order. You can set up time to display a layout in Setup Tool.

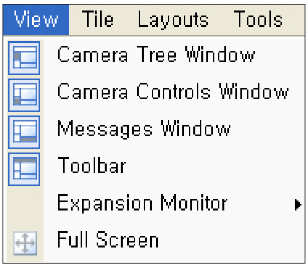
Live Viewer

VIEWING WINDOWS

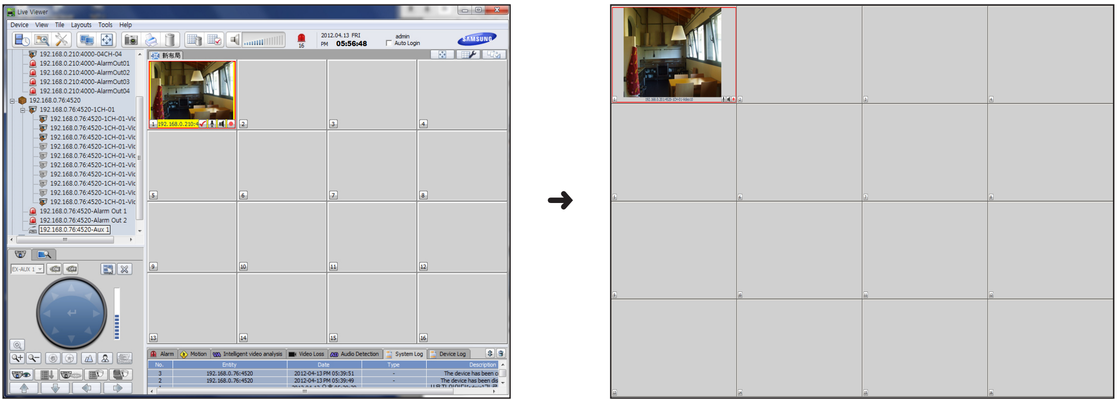
You can use [**View**] in the menu bar to enable or disable the display of five areas.

From [**View**] in the menu bar, select a menu item to show or hide.

- You can choose to show or hide one of 5 areas : Camera Tree Window, Camera Controls Window, Messages Window, Toolbar, and Full Screen.


View
Tile
Layouts
Tools
Camera Tree Window
Camera Controls Window
Messages Window
Toolbar
Expansion Monitor
Full Screen

Ex) If you choose to display [**Full Screen**] only, you can expand the application window to full screen.



- ■ If you change the monitor setting while NET-i viewer is running, the screen may not display the image. Thus, exit NET-i viewer before you try to change the monitor settings.
- ■ In this case, restarting NET-i viewer will restore operation.

TILE SETUP

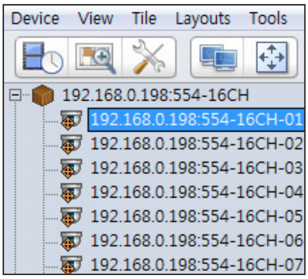
You can configure the settings of the current video in the tile area.

Live Viewer Tree

The camera tree contains cameras, layouts and sites that are created using the Setup tool.

Each displayed entity shows a number next to the entity name. The number is used to identify the tile where the entity is displayed in the Monitoring area. If the tile is activated, the number turns red.

❖ To select a camera for monitoring



192.168.0.198:554-16CH
- 192.168.0.198:554-16CH-01
- 192.168.0.198:554-16CH-02
- 192.168.0.198:554-16CH-03
- 192.168.0.198:554-16CH-04
- 192.168.0.198:554-16CH-05
- 192.168.0.198:554-16CH-06
- 192.168.0.198:554-16CH-07

To view the camera for monitoring in an empty tile

- Double-click a camera to monitor in the tree.
- Select the context menu for the camera.
- Select a camera in the tree, press the [**Enter**] key.
  - For a multiple monitor system, the video will be added to the activated monitor.
  - If there is no empty tile, the video will be added to the selected tile.
- From the tree, click the Camera icon and select [**Add Video**] in the context menu.
  - For a multiple monitor system, you can select a desired monitor in the context menu.

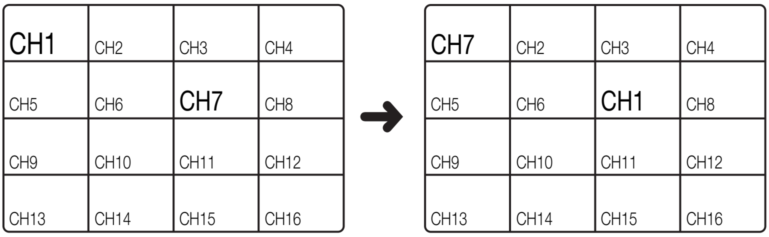
To view live video from the selected camera in a desired tile

1. Select a camera in the tree.
2. Drag and drop it into a desired tile.

To change the video position

1. Select a tile.
2. Drag and drop it into a different position.
   The two selected tiles are interchanged.

Ex) If you drag and drop tile #1 into tile #7



CH1	CH2	CH3	CH4
CH5	CH6	CH7	CH8
CH9	CH10	CH11	CH12
CH13	CH14	CH15	CH16

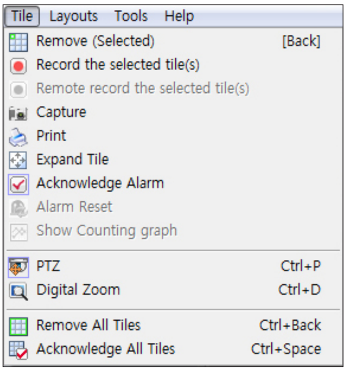
➜

CH7	CH2	CH3	CH4
CH5	CH6	CH1	CH8
CH9	CH10	CH11	CH12
CH13	CH14	CH15	CH16

- ■ This is applied to all tiles displaying video, map, and blank image.
- ■ You can not monitor the same camera in more than one tile simultaneously.
  Ex1) You can not monitor the same camera in more than one Live or Map Viewer.
  Ex2) The camera under monitoring in Live Viewer can not be displayed in Map Viewer simultaneously.

To remove the selected tile

1. Select a tile to remove.
2. You can use the following methods to delete the tile :
   - From the menu bar, select [**Tile**] > [**Remove (Selected)**].
   - Select [**Remove (Selected)**] in the tool bar.
   - Select [**Remove Tile**] in the context menu.
   - Press the [**Delete**], or [**Backspace**] key on the keyboard.
   - For a tile being recorded manually, the recording will be terminated automatically.
   - For a tile being Listened to, the Listen operation is automatically terminated. For a tile being Talked about, the Talk operation is automatically terminated.

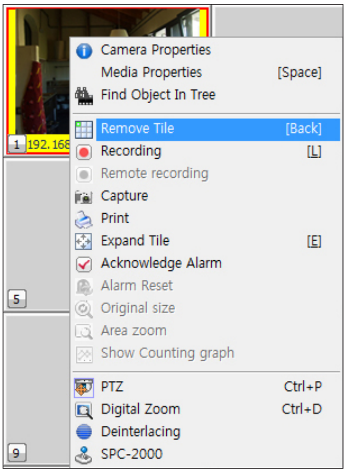

Tile
Layouts
Tools
Help
Remove (Selected) [Back]
Record the selected tile(s)
Remote record the selected tile(s)
Capture
Print
Expand Tile
Acknowledge Alarm
Alarm Reset
Show Counting graph
PTZ Ctrl+P
Digital Zoom Ctrl+D
Remove All Tiles Ctrl+Back
Acknowledge All Tiles Ctrl+Space

To close all videos related to a specific camera

1. Select a camera in the tree.
2. Select [**Remove Tile**] in the context menu.

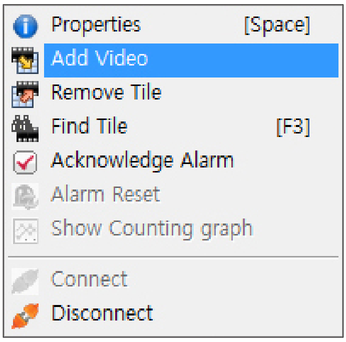
❖ To check the tile status

- If a camera is active and placed on a tile, the video image of the camera will be displayed on the tile.
- If you select a tile, the tile will be marked with a red boarder.
- If an alarm event occurs from a camera, the background color of the corresponding tile turns yellow except for the video area. The number of alarms occurred is shown under the Alarm Indicator sign (🚨) in the Tool Bar area.


1
192.168
5
9
Camera Properties
Media Properties [Space]
Find Object In Tree
Remove Tile [Back]
Recording [L]
Remote recording
Capture
Print
Expand Tile [E]
Acknowledge Alarm
Alarm Reset
Original size
Area zoom
Show Counting graph
PTZ Ctrl+P
Digital Zoom Ctrl+D
Deinterlacing
SPC-2000

To monitor by selecting a site

❖ To monitor all cameras in a specific site simultaneously


Properties [Space]
Add Video
Remove Tile
Find Tile [F3]
Acknowledge Alarm
Alarm Reset
Show Counting graph
Connect
Disconnect

1. Select a site in the tree.
2. Drag and drop it to a tile.
   Double-click a site in the tree.
   Select [**Add Video**] in the context menu.
   Select a site in the tree and press the [**Enter**] key.

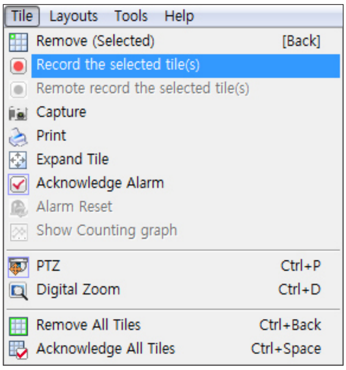
- If the cameras in a site outnumber the tiles, you can display videos on as many tiles as available, while, in a multiple monitor system, you can display the other videos on the second monitor.

❖ To monitor using a map

1. Select [**Add Site Map**] in the context menu of a site in the tree.
2. While the [**Ctrl**] key is pressed, double-click it, or drag and drop it to a tile.

TO RECORD THE SELECTED VIDEO LOCALLY

The camera tree contains cameras, layouts and sites that are created using the Setup Tool.
Each entity in the camera tree will be shown with a tile number next to it on which the entity is displayed.
If the tile is activated, the number turns red.

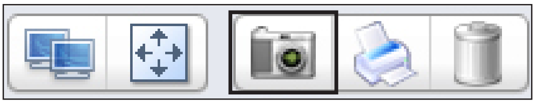

Tile
Layouts
Tools
Help
Remove (Selected) [Back]
Record the selected tile(s)
Remote record the selected tile(s)
Capture
Print
Expand Tile
Acknowledge Alarm
Alarm Reset
Show Counting graph
PTZ Ctrl+P
Digital Zoom Ctrl+D
Remove All Tiles Ctrl+Back
Acknowledge All Tiles Ctrl+Space

1. Select a tile.
2. From the menu bar, select [**Tile**] > [**Record the selected tile(s)**].
   Select the [**Record**] button that is located on the tile.
   Select [**Recording start/stop**] in the context menu of the tile.
   Use shortcut keys available. (▶ pages 91~92)
   - Recording proceeds for the time specified in Setup, and will be stopped automatically when it expires.
     You can search for and play recorded videos using Search Viewer.
     You cannot record a map or empty tile.
     Manual recording allows with recording only one channel at a time.
     If recording fails, you can check reasons of that failure in the system logs.
   - To remove the USB storage device during the recording, perform "**Safe To Remove Hardware**" before removing the USB device.
     If you just remove the USB device without performing the process above, the program will be "**unresponsive**" or you may have to restart the system.

TO RECORD THE SELECTED VIDEO REMOTELY

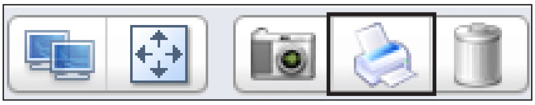
1. Select a tile.
2. From the menu bar, select [**Tile**] > [**Remote record the selected tile(s)**].
   Select the [**Remote Recording**] button that is located on the tile.
   Select [**Recording start/stop**] in the context menu of the tile.
   - Remote recording is capable when the device supports such function.

TO CAPTURE A SNAPSHOT



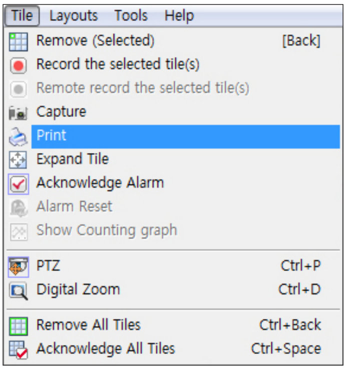
1. Select a tile to capture.
2. From the menu bar, select [**Tile**] > [**Capture**].
   Select [**Capture**] button in the tool bar.
   Select [**Capture**] in the context menu of the tile.
   - The snapshot is saved into the path specified in Setup, in the image file format also specified in Setup.

TO PRINT A SNAPSHOT



1. Select a tile to print.
2. From the menu bar, select [**Print**].
   Select [**Print**] in the tool bar.

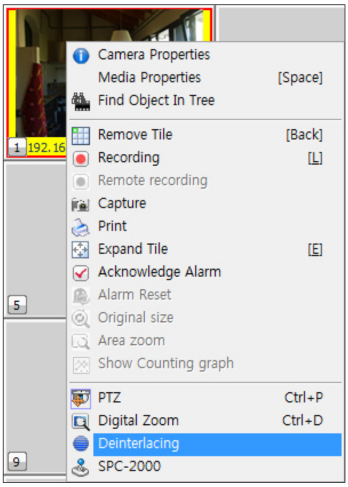
   Select [**Print**] in the context menu of the tile.
   - In the top left corner (title bar) of the Print toolbar, the camera name will be displayed while the date and time will be displayed to the right.


Tile
Layouts
Tools
Help
Remove (Selected) [Back]
Record the selected tile(s)
Remote record the selected tile(s)
Capture
Print
Expand Tile
Acknowledge Alarm
Alarm Reset
Show Counting graph
PTZ Ctrl+P
Digital Zoom Ctrl+D
Remove All Tiles Ctrl+Back
Acknowledge All Tiles Ctrl+Space

DEINTERLACE

You can perform deinterlacing on the tile video.

1. Select a tile to deinterlace.
2. Right-click the tile.
   The context sensitive menu for the selected tile will appear.
3. Click [**Deinterlacing**].
   It will switch to “**ON**”.
   - By default, it is set to “**OFF**”.
4. To cancel the deinterlacing, click the menu again.


1
192.16
5
9
Camera Properties
Media Properties [Space]
Find Object In Tree
Remove Tile [Back]
Recording [L]
Remote recording
Capture
Print
Expand Tile [E]
Acknowledge Alarm
Alarm Reset
Original size
Area zoom
Show Counting graph
PTZ Ctrl+P
Digital Zoom Ctrl+D
Deinterlacing
SPC-2000

SYNCH WITH THE JOYSTICK

By connecting the joystick to the PC, you can control the PTZ operations in the Viewer.

1. Right-click any area in the tile.
   The context sensitive menu will appear.
2. Select [**SPC-2000**].
   It will switch to “**ON**”.
   - This will apply to all tiles in the viewer.
   - This will be activated only if the joystick is connected.
3. To deactivate the joystick, click the menu again.
   The joystick will be also disabled if you disconnect it from the PC.

- The joystick cannot be used simultaneously in both Live Viewer and Map Viewer.
- This function works properly in the NET-i viewer-compliant operating systems.
- If you do not make an axial correction, this function may not work properly depending on the model.

TO VIEW THE COUNTING GRAPH

You can view the counting graph that displays the counting status.

1. Select a tile for which you want to create the counting graph.
2. Right-click the selected tile.
   The context menu of the selected tile will be displayed.
3. Click [**Show Counting graph**].
   The counting graph web page for the camera will appear.
   - This button is available only for a camera model that supports people counting.

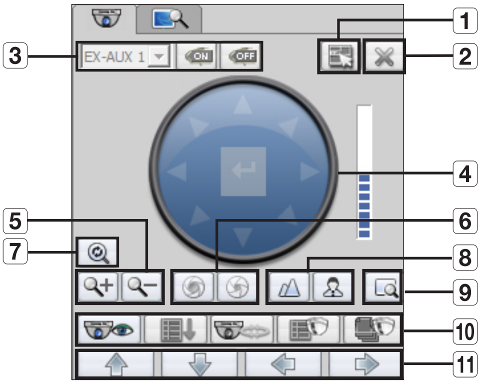
CAMERA CONTROL

PTZ Control

You can control the PTZ operation of multiple cameras in a remote site.

❖ **Basic PTZ**

1. Select a tile to control the PTZ operation.
2. From the menu bar, select [**Tile**] > [**PTZ Control**], or select the PTZ tab in the camera controls area.
3. Activation of this button depends on whether the camera in the selected tile supports PTZ.
4. Use the buttons to try to execute each PTZ command.
   - You can control the operation of Pan, Tilt, Zoom, and Speed with shortcut keys. (▶ pages 91~92)
   - You can control the operations of Pan, Tilt, Zoom, and Speed using the joystick.



- In a low-speed network, the PTZ operation may seem delayed due to a delay of video display.
- PTZ Control buttons are activated only when the camera supports such functions.

Item		Description
1	Menu	Displays the menu items of the selected camera.
2	ESC	Move one level up.
3	EX-AUX	You can control EX-AUX.
4	Pan/Tilt	Use the 8 direction buttons to navigate through the menu items. By adjusting the Speed Slider using the mouse button, you can control the camera movement speed. The slider appears only if the device supports the functions.
5	Zoom In	Enlarges the image.
	Zoom Out	Shrinks the image.
6	Open/Close IRIS	You can control the iris to adjust the intensity of radiation.
7	Original Size	Sets the zoom ratio to original x1.
8	Focus Near/Far	Adjusts the focus nearer or farther.
9	Power PTZ, Area Zoom	Perform Power PTZ or Area Zoom.
10	Function Keys	Preset, Group/Scan, Swing/Autopan, Trace/Pattern, Tour
11	Direction keys	Move to the desired menu.

❖ Preset

If you click Preset in the camera controls area, the Preset window appears where you can : view preset list, add/edit preset, and delete all presets. To move to the selected preset, simply double-click the preset in [**Preset Window**].

❖ Group/Scan, Swing/Autopan, Trace/Pattern, Tour

Operations of View List, and Move are available, but Add, Edit, and Delete are not possible.

1. Group/Scan : The Group function enables you to group multiple presets, swings or traces before calling them in sequence.
2. Swing/Autopan : These functions travel back and forth between 2 preset points that you specified so that you can monitor the moving trace.
3. Trace/Pattern : Use these functions to save or play the pattern command that you instructed using the controller.
4. Tour : This is to call a group and its presets in order and to monitor the overall process.

❖ To use Power PTZ

1. Select a tile and select the PTZ tab in the camera controls area, then click [**Power PTZ**].
2. Click over the selected image or drag & drop it to control.
3. The Power PTZ button appears only if the selected tile supports Power PTZ.
   - Power PTZ is a toggle button of which the default is set to On.
   - The status of Power PTZ is commonly applied to all tiles.

❖ Key features of Power PTZ

To control Pan/Tilt

Use the cursor to select a position on the selected video to which you want to move.

The selected position will be moved to the center of the video image.

To zoom in

1. Click on a desired point.
2. Drag to the bottom left direction and release the mouse button.
   The camera angle adjusts so that the image in the center of the dragged rectangular area moves to the center of the tile, which will be, then, zoomed in according to the dragging area.

To zoom out

1. Click on a desired point.
2. Drag to the top right direction and release the mouse button.
   The camera angle adjusts so that the image in the center of the dragged rectangular area moves to the center of the tile, which will be, then, zoomed out according to the dragging area.

❖ To use Area Zoom

1. Select a tile, select the PTZ tab on the camera controls, and then click [**Area Zoom**] button.
2. On the selected tile's screen, click or drag to control the zooming area by using the mouse.
3. The [**Area Zoom**] button is activated only when the selected tile supports Area Zoom function.
   - Area Zoom mode is toggled, and its default setting is "**On**".
   - Area Zoom mode affects all tiles commonly.
   - From the context menu of the tile, you can also perform Area Zoom or normal zooming.

❖ Main features of Area Zoom

To control Pan/Tilt

Click on the desired position on the selected video screen to move the camera framing.

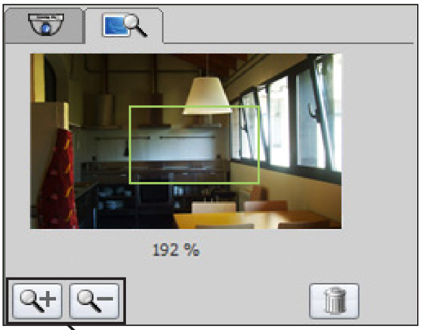
Camera is controlled to center the selected position.

To zoom in

1. Click the mouse button.
2. Drag to set the area to enlarge and release the mouse button.
   Camera is controlled to fill the tile with the rectangular area dragged.

Digital Zoom

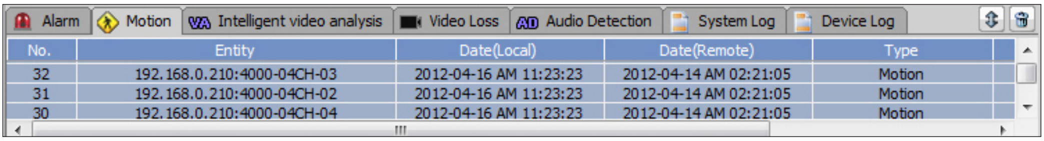
1. Select a tile.
2. In the camera controls area, select the [**Digital Zoom**] tab.
   From the menu bar, select [**Tile**] > [**Digital Zoom**].
   Select [**Digital Zoom**] in the context menu of the selected tile.
   - The Digital Zoom function is available with cameras that do not support zooming.
     If you click the [**Remove**] button, the selected area will be canceled and the screen size returns to 100%.



Zoom In/Out

REAL-TIME EVENT MONITORING

Displays events of Alarm, Motion, Intelligent Video Analysis, Video Loss, Audio Detection as well as System Log and Device Log in real-time.
On an event of Alarm, Motion, Intelligent Video Analysis and Audio Detection detected in a monitoring screen, the corresponding tile is bordered with yellow line and the user can acknowledge the event once confirmed.



No.	Entity	Date(Local)	Date(Remote)	Type
32	192.168.0.210:4000-04CH-03	2012-04-16 AM 11:23:23	2012-04-14 AM 02:21:05	Motion
31	192.168.0.210:4000-04CH-02	2012-04-16 AM 11:23:23	2012-04-14 AM 02:21:05	Motion
30	192.168.0.210:4000-04CH-04	2012-04-16 AM 11:23:23	2012-04-14 AM 02:21:05	Motion

- NET-i viewer Event Filtering.
  - The same event will be shown only once even if it occurs multiple times within 10 seconds.
  - This is because, If the same event occurs repeatedly, it makes the user difficult to identify the event and also aggravate workload of the viewer.

Viewing Events

Alarm
Displays a list of alarm events occurred from a device.

Motion
Displays a list of motion events occurred from a device.

Intelligent Video Analysis
A device generates the Intelligent Video Analysis events according to the configured rules and such an event is indicated.

Video Loss
Displays a list of video loss events occurred from a device.

Audio Detection
Shows the Audio Detection events on the device.
Note that this function may not supported by a certain device.

System Log
Displays a history of internal events, error logs and causes.

Device Log
Displays logs of device events.
Note that this function may not supported by a certain device.
However, this function may not be available, depending on the device.

Scroll Lock
Deactivates auto scrolling.

Clear List
Clears all events listed in each tab.

To view the event recording remotely

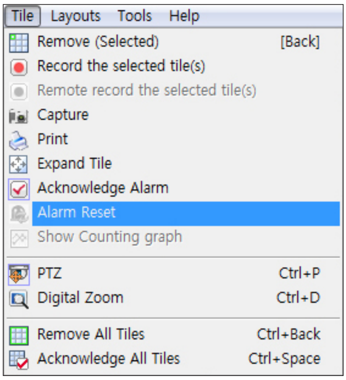
Select an item from the event log, open the context menu and select [**Play Back Event Record**].
User can view the event recording of the remote site that is recorded at the moment of Alarm, Motion, Video Loss and Intelligent Video Analysis event.

ALARM CONTROL

Alarm Control enables you to check the number of alarm occurrences and the alarm out status, with remote control of the alarm out activated. In the tree, select [**Alarm On**] in the context menu of the alarm out.

Alarm Reset

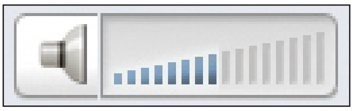
Resets event of the selected device, and cancels alarm.


Tile
Layouts
Tools
Help
Remove (Selected) [Back]
Record the selected tile(s)
Remote record the selected tile(s)
Capture
Print
Expand Tile
Acknowledge Alarm
Alarm Reset
Show Counting graph
PTZ Ctrl+P
Digital Zoom Ctrl+D
Remove All Tiles Ctrl+Back
Acknowledge All Tiles Ctrl+Space

TALK

You can listen to the input sound to a DVR-connected microphone in a remote location.

To start or stop Talk by selecting a tile



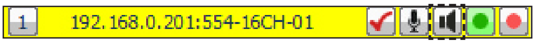
The [**Talk**] button is displayed only for a Talk-supported tile.

You can check cameras in Talk mode in the Live Viewer, Search Viewer and Setup Tool trees.

- Only one camera can Talk at a time.
  Ex) If you press Talk for the second camera in the Map Viewer while the first one is Talking in the Live Viewer, the second one starts Talking and the first one will automatically terminate Talking.

LISTEN

To start or stop Listen by selecting a tile

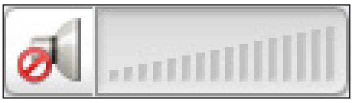


Select the [**Listen**] button that is located on the tile.

This button toggles between ON and OFF.

Only for a tile supporting the Listen function, the [**Listen**] button is displayed.

Mute



This will mute the sound.

Select the [**Speaker**] button in the Tool bar.

This button toggles between ON and OFF.

Volume Control

Adjust the volume in the tool bar.

- Refer to shortcut keys. (► pages 91~92)

You can adjust the volume according to the tile.

You can adjust the volume if the volume level of a specific device is higher or lower than those of the others.

- Only one camera can Listen at a time in each viewer.
  Ex) While camera #1 is Listening in Live Viewer, camera #2 in Map Viewer can still Listen.

USING LAYOUTS

To monitor by selecting a layout

❖ To register a layout with a monitor

In the tree, double-click a layout or drag and drop it into a desired monitor.

You can register multiple monitors with a selected monitor.

From the tree, you can also select a layout in the context menu of the layout icon and add it to a selected monitor.

However, one layout cannot be added to more than one monitor simultaneously.

❖ To view a layout

You can select one in a list of registered layouts with the monitor for monitoring purposes.

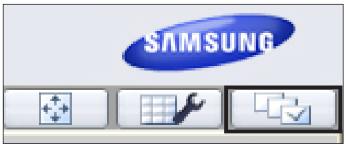
If you select a different layout, all videos in the current layout will be stopped, and the operation of manual recording, Listen, and Talk will be terminated accordingly.

❖ To close a layout

- Use the [**Ctrl + Backspace**] or [**Ctrl + Delete**] shortcuts on the keyboard.
- Select [**Remove All**] in the tool bar.
- From the menu bar, select [**Remove All**].

- You can close all videos and maps on the current layout at once, and the operation of manual recording, Listen, and Talk will be terminated accordingly.

❖ To view in sequence mode



Select the [**Sequence**] button in the upper corner of the layout.

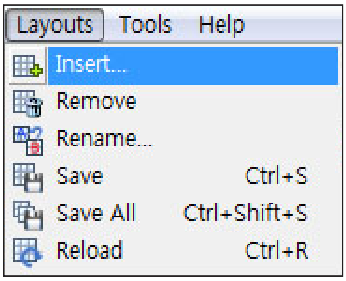
In sequence mode, you can view all layouts registered with the monitor one by one, according to the time setting in Setup.

- The expansion monitor also supports the sequence function.
- The extension monitor system can operate properly and perform the sequence function only if no layout in more than 5x5 exists in the main monitor.

To insert a layout

You can create a new layout, or load an existing one.
If the expansion monitor is currently active, the layout will be added to an active monitor.

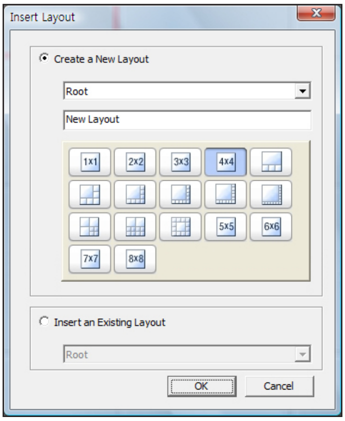
1. From the menu bar, select [**Layouts**] > [**Insert...**], or click the Insert button in the upper corner of the layout.



Live Viewer

2. From the “**Insert Layout**” window, select [**Create a New Layout**].
3. Specify the location of the layout to be displayed in the tree, and select a layout name and a tile pattern.
   Selecting [**Insert an Existing Layout**] will enable you to select one from the existing layouts.
4. Click [**OK**].

- If any one of the extension monitors is active, you cannot add a layout in 5x5 or higher to the main monitor.
- You cannot add a layout in 5x5 or higher to the extension monitor.
- If the sequence operation is active when you add a layout, the sequence operation will be stopped.



Insert Layout

● Create a New Layout

Root

New Layout

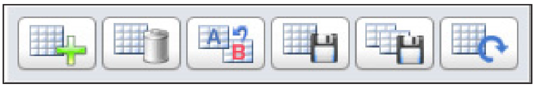
4x4

○ Insert an Existing Layout

Root

To remove a layout

From the menu bar, select [**Layouts**] > [**Remove**], or click the Remove button in the upper corner of the layout.
For a multiple monitor system, the current layout will be removed from an active monitor.



To edit a layout

From the menu bar, select [**Layouts**] > [**Rename...**], or click the Rename button in the upper corner of the layout.
For a multiple monitor system, the current layout will be renamed in an active monitor.

To save a layout

1. From the menu bar, select [**Layouts**] > [**Save**], or click the Save button in the upper corner of the layout.
2. By selecting Save, you can save the settings of the currently active layout.
   Videos that are not currently displayed are automatically stopped and, the operations of recording, Listen, and Talk to the videos are terminated accordingly.

To save all layouts

1. From the menu bar, select [**Layouts**] > [**Save All**], or click the Insert button in the upper corner of the layout.
2. Settings of all layouts on the active monitor will be saved.

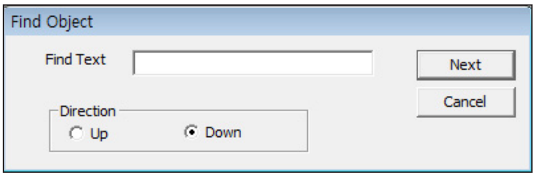
To reload a layout

1. From the menu bar, select [**Layouts**] > [**Reload**], or click the Reload button in the upper corner of the layout.
2. A list of layouts on the active monitor will be displayed again.
   Then, layout settings that are not saved will be lost.

FIND OBJECT

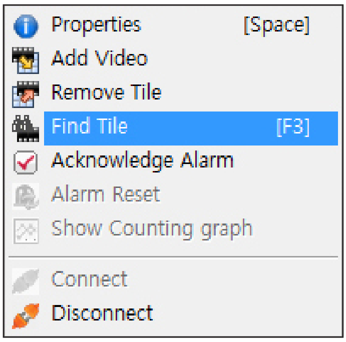
To find a device or camera

- Find a device or camera with the name in the tree.
- Find a camera by selecting an active tile.
- Find a site by selecting a map tile.


Find Object
Find Text
Next
Cancel
Direction
○ Up
● Down

To find a tile

- Select a camera in the tree to find the corresponding video.
- Select a site in the tree to find a map.
- Select an alarm log to find the real-time video of a camera that produces the alarm event.
- Select a motion log to find the real-time video of a camera that produces the motion event.
- Select a video loss log to find the real-time video of a camera that produces the video loss event.
  - For a multiple monitor system, active monitors will be searched in priority.

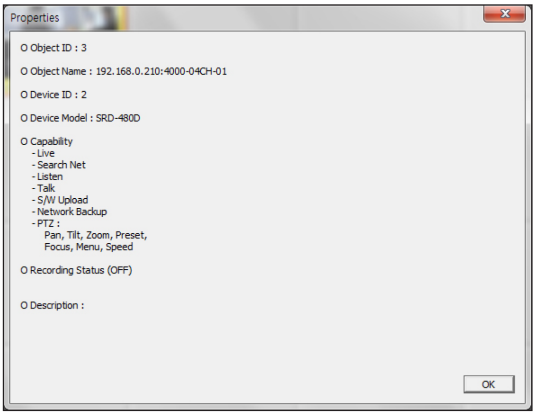

Properties [Space]
Add Video
Remove Tile
Find Tile [F3]
Acknowledge Alarm
Alarm Reset
Show Counting graph
Connect
Disconnect

VIEWING INFORMATION

To view information

You can check the camera, device, site, and layout information.

- Select [**Properties**] in the context menu of a tree icon.
- Select an icon in the tree, and press the [**Space**] key on the keyboard.
- In the context menu of a tile, select [**Camera Properties**].


Properties
OK

O Object ID : 3

O Object Name : 192.168.0.210:4000-04CH-01

O Device ID : 2

O Device Model : SRD-480D

O Capability
- Live
- Search Net
- Listen
- Talk
- S/W Upload
- Network Backup
- PTZ :
  Pan, Tilt, Zoom, Preset,
  Focus, Menu, Speed

O Recording Status (OFF)

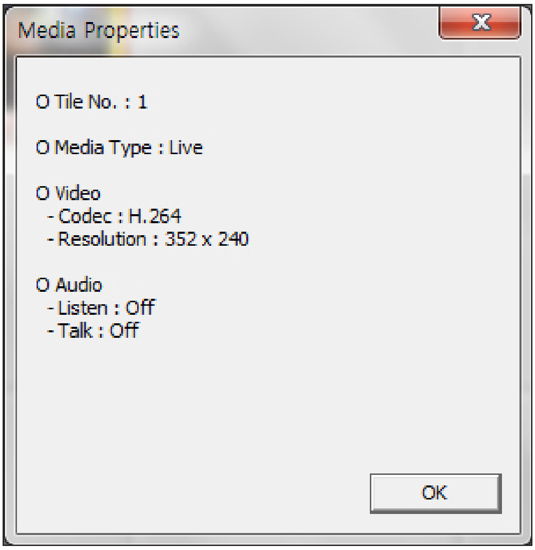
O Description :

To view media information

You can check the information of third-party media.

- In the context menu of a tile, select [**Media Properties**].
- Select a tile, and press the [**Space**] key.

- If the camera supports ATC and ATC is turned on, the resolution, image quality and frame rate of received video displayed on the Live Viewer may be lower than the actual settings configured to the camera.
- See Properties to check if ATC is supported or not.
- See Media Properties to check if ATC is performed or not.


Media Properties

O Tile No. : 1

O Media Type : Live

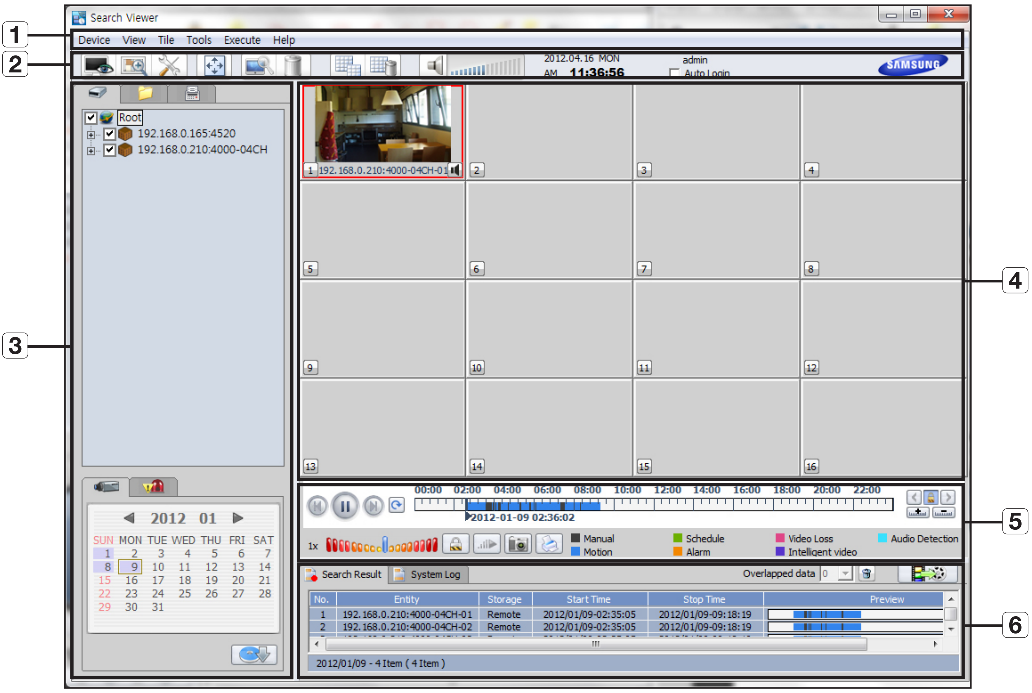
O Video
 - Codec : H.264
 - Resolution : 352 x 240

O Audio
 - Listen : Off
 - Talk : Off

Search Viewer

The Search Viewer application is a program that enables searching for and playing video recorded by Manual Recording or Scheduled Recording.
You can search by date and search for events. You can select and play a search result.

NAME AND FUNCTION OF EACH CONTROL


1
2
3
4
5
6
Search Viewer
Device View Tile Tools Execute Help
2012.04.16 MON
AM 11:36:56
admin
☐ Auto Login
SAMSUNG
Root
192.168.0.165:4520
192.168.0.210:4000-04CH
192.168.0.210:4000-04CH-01
2012 01
SUN MON TUE WED THU FRI SAT
00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00
2012-01-09 02:36:02
1x
Manual
Motion
Schedule
Alarm
Video Loss
Intelligent video
Audio Detection
Search Result
System Log
Overlapped data
0

No.	Entity	Storage	Start Time	Stop Time	Preview
1	192.168.0.210:4000-04CH-01	Remote	2012/01/09-02:35:05	2012/01/09-09:18:19	
2	192.168.0.210:4000-04CH-02	Remote	2012/01/09-02:35:05	2012/01/09-09:18:19	

2012/01/09 - 4 Item (4 Item)

Search Viewer

Area	Item		Description
1 Menu	Device	Connect…	You can connect to each device.
		Disconnect…	You can disconnect from each device.
		Exit	Exits Search Viewer.
	View	Query Generator	Shows or Hides Query Generator.
		Search Result List	Shows or Hides the search result list.
		ToolBar	Shows or Hides the tool bar.
		Show Timeline for Each Tile	Shows Timeline information at the bottom of every file.
		Full Screen	Fits the play area and play control bar to the screen.
		Tile Pattern	1, 4, 9, 16, 25, 36, 49, 64 Identical Partition
			4, 6, 8, 10, 12, 16 Highlight Partition
			7, 10, 13 Free Partition
		Remote Search Tool	Activates the Remote Search Tab.
		Media Clip Search Tool	Activates the Media Clip Search tab.
		System Log	Activates the System Log tab.
		Search Result	Activates the Search Result tab.
	Tile	Remove the Selected Tile	Removes the video from the selected tile.
		Capture	Captures the video snapshot of the selected tile when the button is pressed and saves it as a file.
		Print	Captures the video snapshot of the selected tile when the button is pressed and prints out.
		Expand Tile	Enlarges or restores the selected tile’s display size.
		Digital Zoom	Digitally zooms the video of the selected tile.
		Remove All	Removes all videos from the current layout.
	Tools	Live Viewer	Launches Live Viewer.
		Map Viewer	Launches Map Viewer.
		Setup Tool	Launches Setup Tool.
		Find Object	You can find an entity by name from the tree.
	Execute	Backup	You can select and backup a search result after a search. 2 file formats are supported. (Samsung’s proprietary format and avi)
		Backup File Conversion	You can convert backup file in Samsung’s proprietary format into avi format.
	Help	About	You can see the version of Search Viewer.
		Help	It will be supported later.

Area	Item		Description
2 Tool bar	Live Viewer		This function is the same as [Tools] > [Live Viewer] menu.
	Map Viewer		This function is the same as [Tools] > [Map Viewer] menu.
	Setup Tool		This function is the same as [Tools] > [Setup Tool] menu.
	Full Screen		This function is the same as [View] > [Full Screen]menu.
	Digital Zoom		This function is the same as [Tile] > [Digital Zoom] menu.
	Remove the Selected Tile		This function is the same as [Tile] > [Remove the Selected Tile] menu.
	Change Tile Pattern		This function is the same as [View] > [Tile Pattern] menu.
	Delete All Tiles		This function is the same as [Tile] > [Remove All Tiles] menu.
	Volume		Controls audio play volume. You can also mute the audio.
3 Search Window	Remote Search	Calendar	Days including recorded video are displayed. A date having recorded data will be distinguished. You can also move to another month and search.
		Camera Search	Select the camera to search.
		Event Search	Select the event to search.
		Explorer	Starts search.
	Local Search	Explorer	You can search manual recordings and backup files in Samsung format.
	POS Search	Calendar	Select a date for your search.
		Input time	Specify the time for your search.
		Input text	Type in a keyword.
		Others	Select search options as necessary. (Match case, Find whole words only)
		Search	Start your search.
4 Play Area			Plays the recorded video.
5 Playback Control	Step Backward		It is available in Pause state only. It shows the previous frame on the basis of the current play position.
	Play/Pause		Pressing this button toggles between Play and Pause.
	Step Forward		It is available in Pause state only. It shows the next frame on the basis of the current play position.
	Reload		Reload the playback information for the timeline.
	Timeline		You can view the Timeline information of the recorded video of the selected tile. You can select a particular play position.

Search Viewer

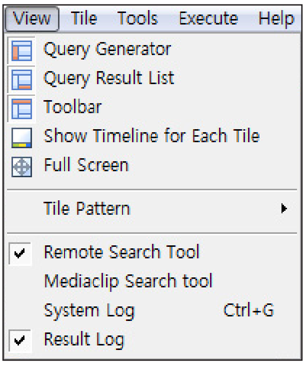
Area	Item	Description
5 Playback Control	Zoom In	Enlarges Timeline bar.
	Zoom Out	Diminishes Timeline bar.
	Playback Speed	You can control the play speed. You can select a play speed in the Play Speed UI or change the play speed by dragging. If you release the mouse button, the play speed will return to normal speed (1x). Fast Forward (1, 2, 4, 8, 16, 32, 64) Rewind (-1, -2, -4, -8, -16, -32, -64)
	Lock Speed	You can fix the play speed to your selection even when you release the mouse button.
	Slow Playback	You can play a video slowly. Fast Forward (1, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64) Rewind (-1, -1/2, -1/4, -1/8, -1/16, -1/32, -1/64)
	Capture	Captures the snapshot of the current video and saves it as a file. You can set the file path and format for the snapshot file in Setup.
	Print	Prints the snapshot of the current video.
	Reload Timeline	Reloads the timeline.
	Lock Timeline	Locks / unlocks the timeline.
	Go to the Previous Timeline	Moves to the previous timeline.
	Go to the Next Timeline	Moves to the next timeline.
6 Search Result Area	Search Result	You can view search result.
	System Log	You can view system log.
	Play	Play the video of the selected search result.
	Thumbnail View	Display the thumbnail of the selected search result.
	Overlapped Data	Check for a recording data item where the timelines are overlapped.If any is found, you can select it for playback or backup purpose.
	Clear list	You can delete all the contents of the list.
	Scroll Lock	You can set so that list is not automatically scrolled when an item is added to the list.
	Backup	This function is the same as [Excute] > [Backup] menu.
	Backup File Conversion	This function is the same as [Excute] > [Backup File Conversion] menu.

VIEW

Displaying and hiding areas.

You can set the display of query generator, search result list and tool bar using the options in the [**View**] menu.

Ex) Once the Tool bar is unchecked, the Tool Bar area will disappear.


View
Tile
Tools
Execute
Help
Query Generator
Query Result List
Toolbar
Show Timeline for Each Tile
Full Screen
Tile Pattern
Remote Search Tool
Mediaclip Search tool
System Log
Ctrl+G
Result Log

❖ To display the timeline on each tile

You can set to display timelines for each tile by selecting [**View**] > [**Show Timeline for Each Tile**].

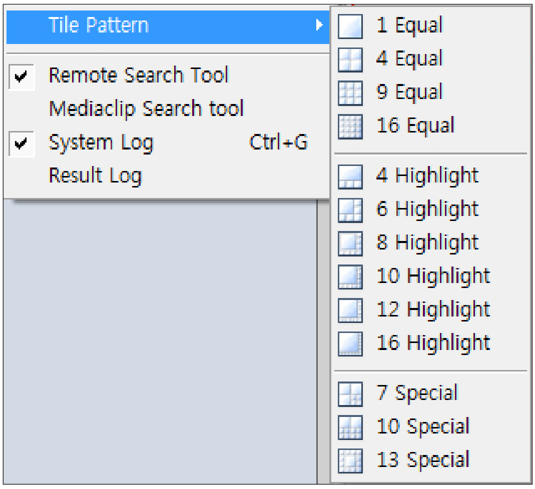
❖ To display in full screen

Select [**View**] > [**Full Screen**].

The title bar, tool bar, Query Generator and search result list disappear and the screen is enlarged to the monitor size.

❖ To change the tile pattern

1. Select [**View**] > [**Tile Pattern**].
2. Select a desired tile pattern.


Tile Pattern
Remote Search Tool
Mediaclip Search tool
System Log
Ctrl+G
Result Log
1 Equal
4 Equal
9 Equal
16 Equal
4 Highlight
6 Highlight
8 Highlight
10 Highlight
12 Highlight
16 Highlight
7 Special
10 Special
13 Special

Search Viewer

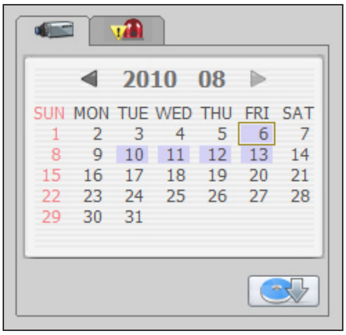
SEARCHING

You can search recorded data from the unit. You can search recordings and backup files in REC1 format.

To search for a video by selecting a date

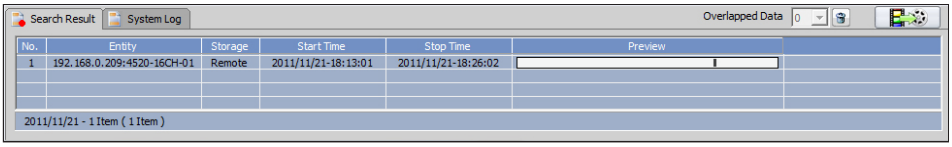
You can search for a video file by selecting a date.

1. Select the desired storage's tab and select a camera for your search.
2. Select the target month by using the previous/next month buttons.
3. A date having recorded data is indicated with blue rectangle.
4. Select a date that has saved video.
5. Click the Search button.
   You can search for the video data recorded at selected date.



Viewing the Query Result List

Lists the search results by the camera.



No.	Entity	Storage	Start Time	Stop Time	Preview
1	192.168.0.209:4520-16CH-01	Remote	2011/11/21-18:13:01	2011/11/21-18:26:02	

2011/11/21 - 1 Item (1 Item)

Item	Description
Entity	Shows the camera name.
Storage	Shows the storage device storing the data.
Start Time	Start time of the recording session.
Stop Time	Stop time of the recording session.
Preview	Shows the Timeline information.
Overlapped Data	Check for a recording data item where the timelines are overlapped. If any is found, you can select it for playback or backup purpose.
Clear List	Deletes all the contents of the Query Result list.

- You can sort by each field for your review.
- You can check the statistics information.
- An overlapped data item can be selected only if you search for a single device.

- In Remote Search, if a limited camera that only supports exclusive search and another user has the privilege, the checkbox will be deactivated with a message of “Not Allowed.” in the system log when attempted.
  - Devices without exclusive search permission can be selected in their respective checkbox at any time.
- If you are the only one who has the permission, the checkbox will be activated where you can select to search or play.
  - Devices without exclusive search permission can be selected in their respective checkbox at any time.
- If you try to uncheck the camera in playback, it fails with a message of “You can’t uncheck a camera that is currently in playback.”; if you want to uncheck it, close the play screen of the current camera and try again.
- If you make a search and try to play a search result of the unchecked camera in the tree, it fails with a message of “Not Allowed.” appeared in the System Log.
- To release the search privilege of a device, you must uncheck all channels of the corresponding device.
  - Ex) For a 4 channel DVR, uncheck all of the 4 channels.
- If other viewer has the search privilege and you try to uncheck the camera, it fails with a message of “Not Allowed.” appeared in the System Log. In this case, the viewer having the privilege needs to release the camera before trying again.
  (If the device that you want to search is in remote playback on a Map Viewer, all camera playback windows of corresponding device should be closed to be available for search and playback in Search Viewer.)

❖ Timeline Information

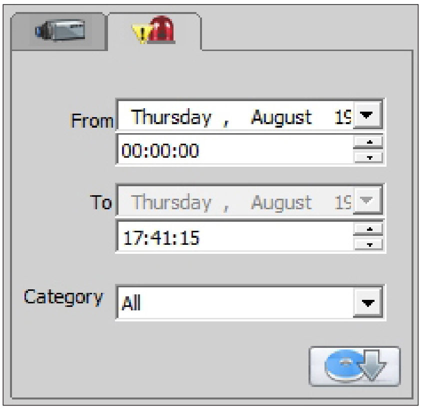
The search result includes the Preview, which displays the positions for manual and scheduled recordings with different colors.

If you double-click any of the Color bar of the Preview in the search result, or place any item on a tile using drag-and-drop method, it will start playback.

Recording type of the video data appeared in the Preview bar is distinguished by different colors. Refer to the color information. (► page 63)

To search for a video by the event

You can search for saved video files by the event.



From Thursday , August 19
00:00:00

To Thursday , August 19
17:41:15

Category All

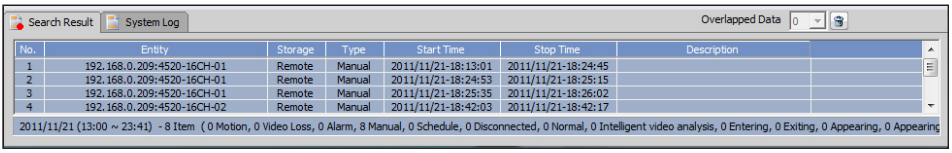
1. Select [**Event Search**] tab.
   - Set the time section.
   - Default setting is from 0 o’clock of today to the current time.
   - You can select only a section within a day.
2. Select the category for search.
   - All : Searches for all regardless of the recording type.
   - Motion : Searches for a recording section that occurred the motion.
   - Alarm : Searches for a recording section that occurred the alarm.
   - Video Loss : Searches for a recording section that occurred the video loss.
   - Audio Detection : Searches over the recorded interval for Audio Detection events.
   - Manual : Searches for a manual recording section.
   - Schedule : Searches for a scheduled recording section. (applicable for remote search only)

- Passing : Recorded interval that includes an object passes across the specified line in the rule
- Entering : Recorded interval that includes an object enters the specified area in the rule
- Exiting : Recorded interval that includes an object exits the specified area in the rule
- Appearing : Recorded interval that includes an object appears in the specified area in the rule
- Disappearing : Recorded interval that includes an object disappears from the specified area in the rule
- Tampering : Section recorded upon detection of sudden scene changes.
- Face Detect: Recording section within the specified area rules where the face detection is set
- Disconnected network: Recording section where the network is disconnected
- Normal: Recording section where the frame rate is fixed to a certain rate

Viewing the Query Result List

Displays the search results by the recorded sections.

If you are date-searching for three-times manual recording data for a single camera, the search result will be one occurrence while the event search result will have three occurrences. Thus, you may see the same camera in multiple lines.



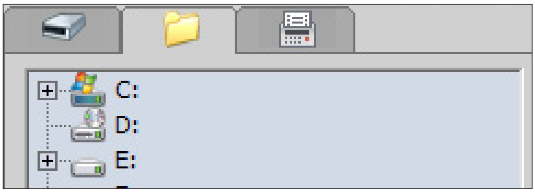
No.	Entity	Storage	Type	Start Time	Stop Time	Description
1	192.168.0.209:4520-16CH-01	Remote	Manual	2011/11/21-18:13:01	2011/11/21-18:24:45	
2	192.168.0.209:4520-16CH-01	Remote	Manual	2011/11/21-18:24:53	2011/11/21-18:25:15	
3	192.168.0.209:4520-16CH-01	Remote	Manual	2011/11/21-18:25:35	2011/11/21-18:26:02	
4	192.168.0.209:4520-16CH-02	Remote	Manual	2011/11/21-18:42:03	2011/11/21-18:42:17	

2011/11/21 (13:00 ~ 23:41) - 8 Item (0 Motion, 0 Video Loss, 0 Alarm, 8 Manual, 0 Schedule, 0 Disconnected, 0 Normal, 0 Intelligent video analysis, 0 Entering, 0 Exiting, 0 Appearing, 0 Appearing

Item	Description
Entity	Shows the camera name.
Storage	Shows the storage device storing the data.
Type	Shows the event type of the corresponding section.
Start Time	Start time of the recording session.
Stop Time	Stop time of the recording session.
Descriptions	Shows the additional information.
Clear List	Deletes all the contents of the Query Result list.

- You can sort by each field.
- You can check the statistics information.

To search for a video clip



Media clip search enables users with searching and playing recordings and backup files created by the Viewer.

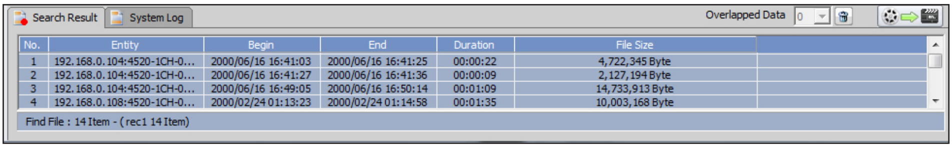
Playback can be enabled for only REC1 files while the AVI format can be played in any commercial media player.

1. Select the Search Local tab.
2. Select a folder.

Viewing the Query Result List

Displays the search results of the video clips in the selected folder.

Displays one search occurrence for one video clip.



No.	Entity	Begin	End	Duration	File Size
1	192.168.0.104:4520-1CH-0...	2000/06/16 16:41:03	2000/06/16 16:41:25	00:00:22	4,722,345 Byte
2	192.168.0.104:4520-1CH-0...	2000/06/16 16:41:27	2000/06/16 16:41:36	00:00:09	2,127,194 Byte
3	192.168.0.104:4520-1CH-0...	2000/06/16 16:49:05	2000/06/16 16:50:14	00:01:09	14,733,913 Byte
4	192.168.0.108:4520-1CH-0...	2000/02/24 01:13:23	2000/02/24 01:14:58	00:01:35	10,003,168 Byte

Find File : 14 Item - (rec1 14 Item)

Item	Description
Entity	Shows the camera name.
Begin	Start time of the recording session of the video clip.
End	End time of the recording session of the video clip.
Duration	Stop Time – Start Time
File Size	Shows the file size.
Clear List	Deletes all the contents of the Query Result list.
Scroll Lock	Sets so that a list is not automatically scrolled.

- You can sort by each field.
- You can check the statistics information.
  Ex) Find a file: 7 Items – (rec1 7 Items)

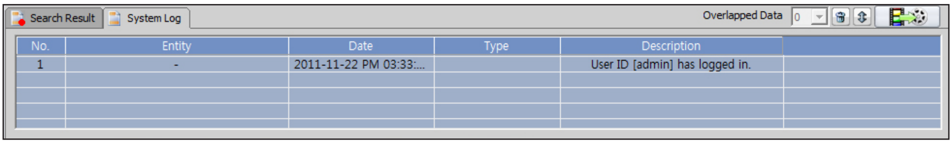
System Log

If user's request has failed, the error log will be displayed for your reference.

You can sort by each field.

You can remove all of the system logs.

You can lock the scroll bar to prevent auto scrolling.

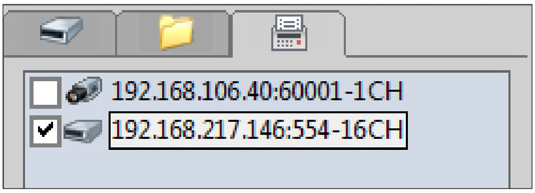


No.	Entity	Date	Type	Description
1	-	2011-11-22 PM 03:33:...		User ID [admin] has logged in.

POS Search

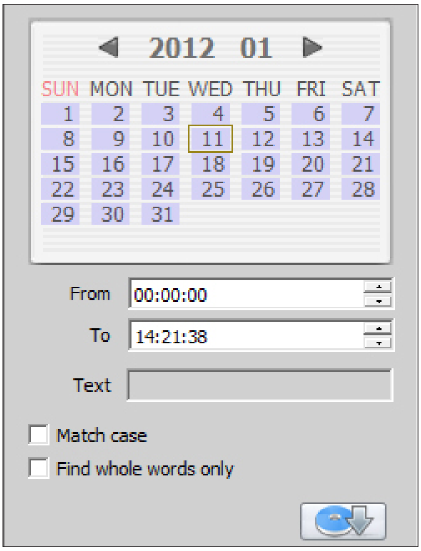
Based on the entered keyword, you can search for a desired POS data item or video.

1. Select the POS Search tab.
2. Select a device to search.
   - Select only a single device at a time.



☐ 192.168.106.40:60001-1CH
☑ 192.168.217.146:554-16CH

3. Specify the search range.
   - Use the calendar to specify the date for your search.
   - The search time should belong to the selected date.
4. Type in a keyword.
   - You can enter up to 255 characters in English alphabets. (Korean alphabets or special characters are limited to 127 characters.)
5. Select search options as necessary.
   - Options available: Match case, Find whole words only
6. Click Search to start your search.
7. You can stop searching at any time during the search by clicking Cancel.



◀ 2012 01 ▶

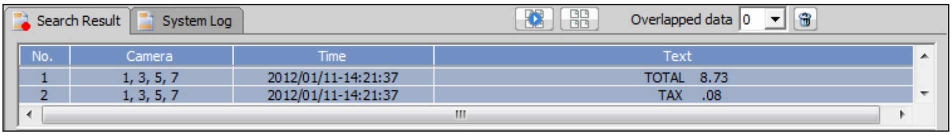
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

From 00:00:00
To 14:21:38
Text
☐ Match case
☐ Find whole words only

Viewing the search result list

For the selected device, the list of search results that include the entered keyword will be displayed.

One POS event will take the whole row.



Overlapped data 0

No.	Camera	Time	Text
1	1, 3, 5, 7	2012/01/11-14:21:37	TOTAL 8.73
2	1, 3, 5, 7	2012/01/11-14:21:37	TAX .08

Item	Description
Camera	Display the number of the channel where the POS event occurred. (Display of multiple channels supported)
Event occurrence time	Display the time that the POS event occurred.
Text	List the match results of your search for the receipt.
Play	Play the video from the camera where the selected POS event occurred.
Thumbnail View	Display the thumbnail of the selected search result.

- In the search result list, the first result; no sorting is supported.
- If you access the POS Search tab, exit the tab or make your search gain, the current search result list will be reset.
- Multiple selection of the search results is not supported.
- If one search result is found from multiple cameras, the thumbnail view is provided for only the first displayed camera.
- In POS search mode, the backup function will be disabled.

PLAY

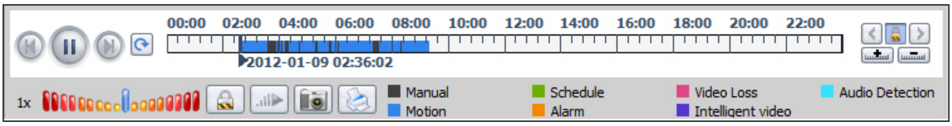
To play an item in an empty tile, double-click a desired item in the search result list of search by date / event, or in the video clip search result list.

The point where it starts the playing is the start time of the search result.

From the search result list, drag and drop a desired item to the tile.

Playback Control

❖ Controls available



Timeline

Displays the time scales. You can enlarge or reduce the scale by pressing the [**Zoom In**] or [**Zoom Out**] buttons.

Each recorded data is displayed with different colors on the timeline.

- Even if there exist two or more types of recorded video in the same time period, it is represented by one color.

Color	⬛ Gray	🟦 Blue	🟩 Green	🟧 Orange	🟥 Red	🟦 Sky-blue	🟪 Purple
Recording Type	Manual	Motion	Scheduled	Alarm	Video Loss	Audio Detection	Intelligent Video Analysis

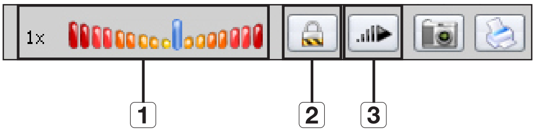
- Reload Timeline: Reloads the timeline.
- Lock Timeline: Locks / unlocks the timeline.
  - Timeline lock status: If the current playback position moves to the end of the current timeline, it automatically displays the next timeline. However, Go to the Previous Timeline and Go to the next Timeline are not available if the timeline is locked.
  - Timeline unlock status: If the timeline is locked and the playback position crosses over the boarder of the currently displayed timeline, the next timeline will not be automatically displayed; thus, there may be a discrepancy between actual playback and timeline. Go to the Previous Timeline and Go to the Next Timeline are available only if the timeline is unlocked.
- Go to the Previous Timeline: Moves back to the previous timeline section.
- Go to the Next Timeline: Moves forward to the next timeline section.

Step Backward / Play or Pause / Step Forward

You can move backward or forward one frame (Step Backward / Step Forward), and play or pause the recorded videos (Play / Pause).

Play Speed

Drag the speed indicator to increase / decrease the speed.



1) Play Speed Control

- Forward Play: 1, 2, 4, 8, 16, 32, 64
- Backward Play: -1, -2, -4, -8, -16, -32, -64
- It is returned to normal speed (1x) when mouse dragging is released.

2) Lock Speed

3) Slow Playback

- Forward Play: 1x, 1/2x, 1/4x, 1/8x, 1/16x, 1/32x, 1/64x
- Backward Play: -1x, -1/2x, -1/4x, -1/8x, -1/16x, -1/32x, -1/64x

Capture & Print

You can save the snapshot of the current screen in your PC.
Set the capture file path in [**System**] > [**Option**] in Setup Tool.
Selecting the [**Capture**] or [**Print**] in the menu bar will do the same functions.

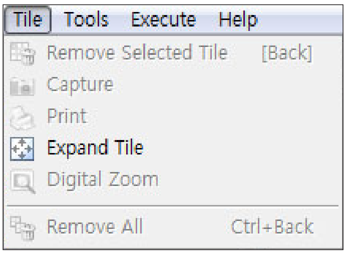
Search Bar

You can move to the desired position using the Search Bar, which its time displayed.

TILE

You can delete or enlarge a tile, save a snapshot or print the current frame of a tile, digital zoom, and delete all tiles.

Select [**Tile**] from the menu bar and select a desired menu.



To remove the selected tile

Select [**Tile**] > [**Remove Selected Tile**] in the menu bar or select [**Remove Selected Tile**] button in the tool bar.

- For remote playback, some devices may limit the number of channels to play simultaneously.
  If you try to play beyond the limit, it fails with an error message logged in the System Log.
  When you play a recorded data saved in a device, once camera may not be played on more than a tile.
  - Depending on the device.

To capture/print a snapshot

You can save or print a snapshot of the current screen.

1. Select a tile.
2. Select [**Tile**] > [**Capture**/**Print**] or select the desired context menu of the corresponding tile.

- For further details, refer to "**Live Viewer** > **To capture a snapshot**". (▶ page 42)

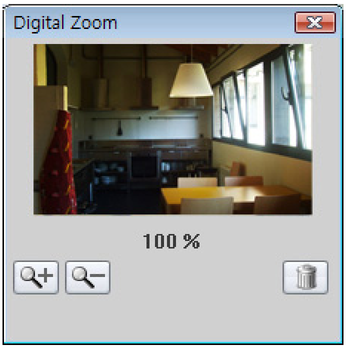
To display a tile in full screen

- Select a tile by choosing the desired tile number.
- After selection, press [**E**] of the keyboard.
- Select [**Expand Tile**] in the context menu of the corresponding tile.

Digital Zoom

For digital zoom controls, select [**Tile**] > [**Digital Zoom**] in the menu bar or click the [**Digital Zoom**] button of the tool bar.

- For further details, refer to "**Live Viewer** > **Digital Zoom**". (▶ page 46)



Deinterlace

You can perform the deinterlacing on the selected tile.

- For further details, refer to "**Live Viewer** > **Deinterlace**". (▶ page 43)

To remove all videos from the layout

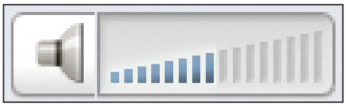
Select [**Tile**] > [**Remove All**] in the menu bar to remove all items from the tiles.

Listen

You can listen to audio of the file played back in remote and local playbacks.

However, audio function must be supported by the device.

- For further details, refer to "**Live Viewer** > **Listen**". (▶ page 48)

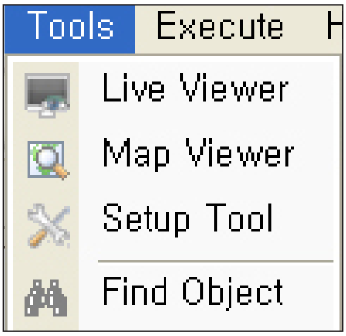


Search Viewer

TOOLS

To execute other viewer

If you want to execute any of two other applications, select [**Tools**] > [**Live Viewer**] or [**Setup Tool**] in the menu bar.
Or you can click the [**Live Viewer**] or [**Setup Tool]** button in the tool bar.



EXECUTE

Backup

Backs up recorded data stored in the remote site.

Backup is enabled only for the date-search results.

Backup for the event-search result is not available.

1. Run the Search Viewer, and select [**Backup**].
2. Select the [**Backup**] button on the top of the search result list.
3. Specify the backup settings as follows and press the [**Backup**] button.
   - Select Camera: Select the camera's checkbox to be backed up.
   - Set Time: Specify the start and end time of the backup.
   - Save Path: Specify the folder path to save the backup file.
   - File Format: Specify the file format of the backup file. (REC1, AVI, SEC file formats are supported.)
   - Set the priority of the backup items.
   - REC1: Samsung's proprietary format that can be played by NET-i viewer alone.
   - SEC: Samsung's proprietary format that can be played without a separate viewer application.

- Remote backup of camera that is currently in playback may not be available, depending on the device.

Searching Video Clip

You can search and play recordings and backup files created by the Viewer.

Backup file in AVI format can be played back with a common media player.

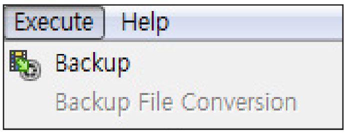
For playing an .avi backup video clip of NET-i Viewer, you can use the free video player to play the video.

- ex: GOM Player, KM Player, etc

However, the video may not played properly, depending on the CODEC compliance of the player.

To convert backup file formats

Manual recording files or backup files in REC1 format can be converted into AVI or SEC format.



1. Search the video clip and select a desired one to be converted.
2. On the top of the video clip search result list, click the [**Backup File Conversion**] button.
   Specify the followings in the [**Backup File Conversion**] window.
   - Select an item to convert.
     Specify the priority of the items to convert.
     The top item in the list will be processed first.
   - Specify the save path of the converted file.
   - Click the [**Convert**] button.

To check device properties

You can view the properties of an object in the tree.

- Select [**Properties**] in the context menu of the tree.
- Select [**Properties**] in the context menu of the tile.
- After selecting an icon from the tree, press [**Space**] of the keyboard.

You can view the media properties.

- Select [**Properties**] in the context menu of the tile.
- After selecting a tile, press [**Space**] of the keyboard

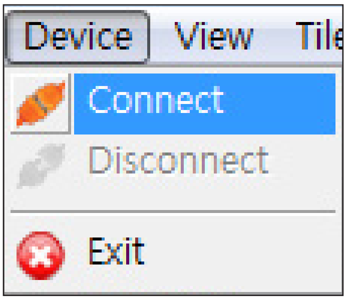
To view detailed information about a video clip

- Select [**Properties**] in the context menu after selecting an item from the search result.

To connect/disconnect each device

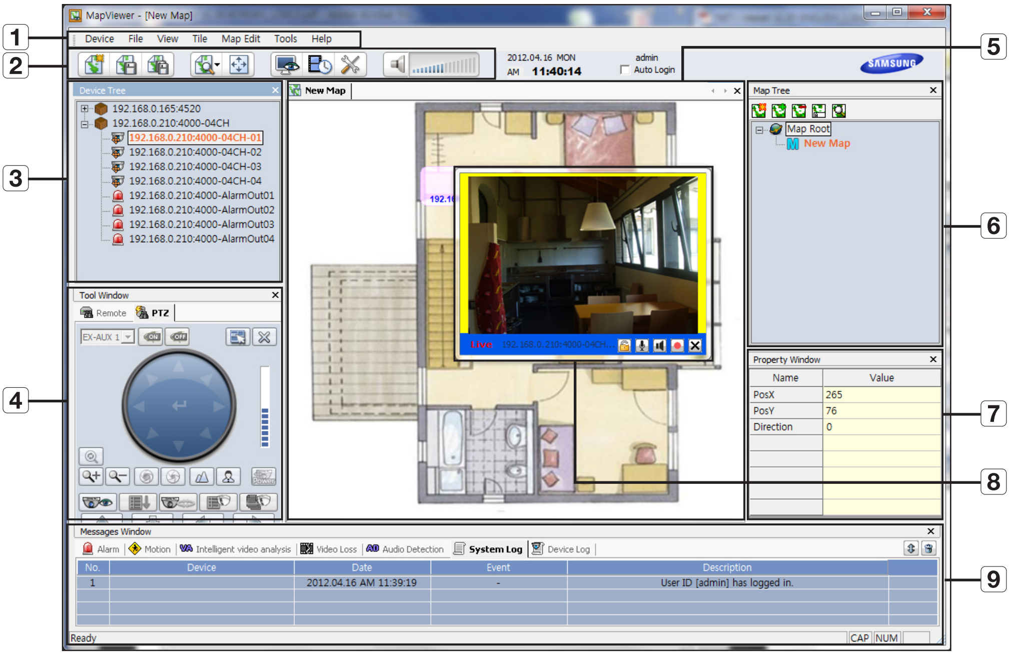
Select [**Device**] > [**Connect**] from the menu bar.

Select [**Connect**] in the context menu of the camera displayed in the tree.



Map Viewer

NAME AND FUNCTION OF EACH CONTROL


1
2
3
4
5
6
7
8
9
MapViewer - [New Map]
Device
File
View
Tile
Map Edit
Tools
Help
2012.04.16 MON
AM 11:40:14
admin
Auto Login
SAMSUNG
Device Tree
192.168.0.165:4520
192.168.0.210:4000-04CH
192.168.0.210:4000-04CH-01
192.168.0.210:4000-04CH-02
192.168.0.210:4000-04CH-03
192.168.0.210:4000-04CH-04
192.168.0.210:4000-AlarmOut01
192.168.0.210:4000-AlarmOut02
192.168.0.210:4000-AlarmOut03
192.168.0.210:4000-AlarmOut04
New Map
Live
Map Tree
Map Root
New Map
Tool Window
Remote
PTZ
EX-AUX 1
ON
OFF
Property Window
Messages Window
Alarm
Motion
Intelligent video analysis
Video Loss
Audio Detection
System Log
Device Log
Ready
CAP
NUM

Name	Value
PosX	265
PosY	76
Direction	0

No.	Device	Date	Event	Description
1		2012.04.16 AM 11:39:19	-	User ID [admin] has logged in.

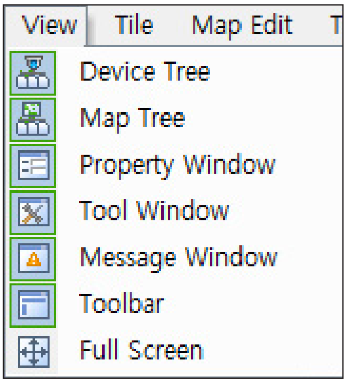
Area	Item		Description
1 Menu	Device	Connect	You can connect to each device.
		Disconnect	You can disconnect a device.
		Exit	Terminates the application.
	File	Close	Closes the selected map currently displayed.
		Close All	Closes all maps displayed.
		Save	Saves the selected map currently displayed.
		Save All	Saves all maps displayed.
	View	Device Tree	Shows or hides the device tree window.
		Map Tree	Shows or hides the map tree window.
		Properties	Shows or hides the properties window.
		Tools	Shows or hides the tools window.
		Messages	Shows or hides the messages window.
		Tool bar	Shows or hides the tool bar.
		Full Screen	Displays map screen in full screen mode. ESC cancels full screen mode.
	Tile	Remove the selected tile	Removes the video from the selected tile.
		Record the selected tile	Records the video from the selected tile.
		Remote recording of the selected tile	Records the selected tile’s video remotely.
		Capture	Captures a snapshot of the selected tile’s video. Saves the snapshot in the image format assigned in Setup.
		Print	Prints a snapshot of the selected tile’s video.
		Acknowledge Event	You can cancel the selected tile's alarm.
		Alarm Reset	Resets event of the selected device, and cancels alarm.
		Show Counting graph	You can view the counting graph that displays the counting status.
	Edit Map	New Map	Creates a new map.
		Add Map	Adds an existing map.
		Delete Map	Deletes a map.
		Rename Map	Renames a map.
		View Map	Opens a map.
	Tools	Live Viewer	Launches the Live Viewer.
		Search Viewer	Launches the Search Viewer.
		Setup Tool	Launches the Setup Tool.
	Help	About	Shows the Map Viewer version.
2 Tool bar	New Map		Creates a new map.
	Save Map		Saves the selected map currently displayed.
	Save All		Saves all maps displayed.
	View	Device Tree	Shows or hides the device tree window.
		Map Tree	Shows or hides the map tree window.
		Properties	Shows or hides the properties window.
		Tools	Shows or hides the tools window that displays Local, Remote and PTZ functions.
		Messages	Shows or hides the messages window.

Map Viewer

Area	Item	Description
2 Tool bar	Full Screen	Displays map screen in full screen mode. ESC cancels full screen mode.
	Live Viewer	Launches Live Viewer
	Search Viewer	Launches Search Viewer
	Setup Tool	Launches the Setup Tool.
3 Device Tree		You can find cameras, alarm and sites registered to NET-i viewer at a glance. You can locate selected camera, alarm and site on a map. You can start or stop an alarm remotely.
4 Tools	Remote Search	Refer to the “Playback Control” of Search Viewer. ► page 63
	PTZ Control	Refer to the “PTZ Control” of Live Viewer. ► page 44
5 Maps tab		This area displays each of open maps as a tab.
6 Map Tree	New Map	Creates a new map.
	Add Map	Adds an existing map.
	Delete Map	Deletes a map.
	Rename Map	Renames a map.
	View Map	Opens a map.
7 Properties		You can edit properties of the camera, alarm and link selected from a map.
8 Monitoring (Map Screen)		You can locate selected camera, alarm and linked map on a map. You can check camera, alarm, linked map located on a map and events in real time. You can view the video from the selected camera. You can set ON/OFF the alarm.
9 Messages	Alarm	You can check events (such as Alarm, Motion, Video Loss, Audio Detection and Intelligent Video Analysis) from the device. You can view the real-time screen from the camera that is generating the event. You can find the camera that is generating an event from the registered layout. You can promptly play back the recording of the event.
	Motion	
	Intelligent Video Analysis	
	Video Loss	
	Audio Detection	
	System Log	Shows reasons of failed user requests. Shows NET-i viewer generating event log.
	Device Log	You can check the device’s events.
	Scroll	Locks lists not to auto scroll up / down. Applies to all tabs.
	Delete All List	Deletes all list. Applies to all tabs.

VIEW

Displaying and hiding window


View
Tile
Map Edit
Device Tree
Map Tree
Property Window
Tool Window
Message Window
Toolbar
Full Screen

You can set to display or hide window for each area using the options of the View menu.

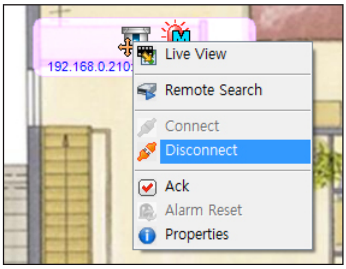
For instance, the camera tree area disappears when you set to hide the camera tree window.

Selecting the Full Screen will display the current map in full screen mode.

- For view areas, refer to "**Name and Function of Each Control**". (▶ pages 68~70)

CONTROLLING DEVICES

To connect to a camera


192.168.0.210
Live View
Remote Search
Connect
Disconnect
Ack
Alarm Reset
Properties

You can connect / disconnect a camera by selecting [**Connect**] or [**Disconnect**] in the context menu of a camera.

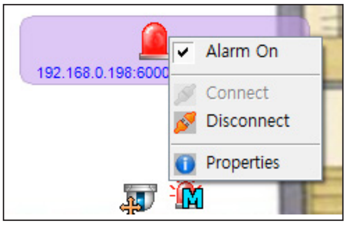
If connected, the [**Connect**] menu is deactivated.

To connect to an alarm

You can connect / disconnect an alarm by selecting [**Connect**] or [**Disconnect**] in the context menu of an alarm.

If checked, the [**Connect**] menu is deactivated.

To control an Alarm Out


192.168.0.198:6000
Alarm On
Connect
Disconnect
Properties

You can turn on or off remote-installed alarm by selecting [**Alarm On**]/[**Off**] in the context menu of an alarm.

- For example, if a buzzer is connected to Alarm Out terminal, you can make the buzzer sound by setting it to [**On**].

To generate an alarm, check [**Alarm On**] in the context menu of the Alarm Out placed in the map screen.

Map Viewer

Capture / Print

Select a tile to capture its video.

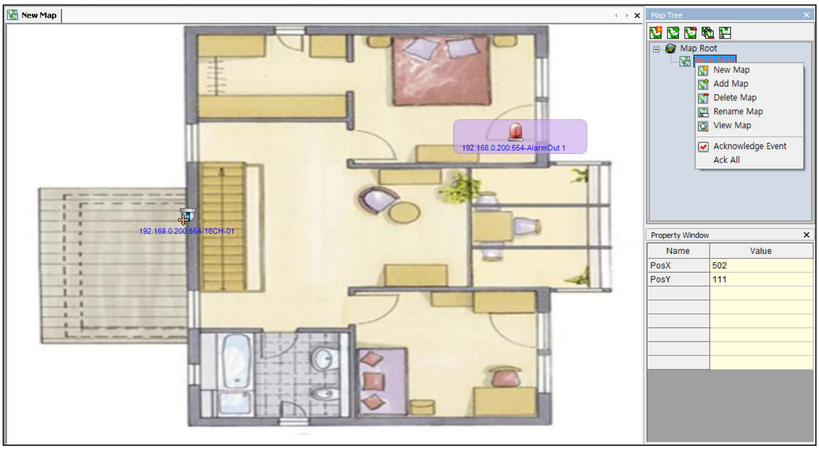
For further details, refer to “**Live Viewer > To capture/print a snapshot**”. (▶ pages 42)

EDITING A MAP

Presents how to create, add, delete and rename a map.

Presents how to change map tree structure (move, copy).

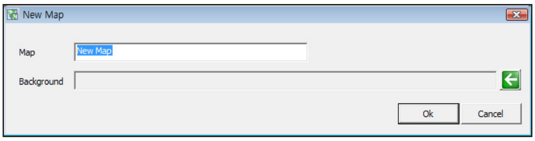
Presents how to edit the created map.


New Map
192.168.0.200:554-AlarmOut 1
192.168.0.200:554-16CH-01
Map Tree
Map Root
New Map
New Map
Add Map
Delete Map
Rename Map
View Map
Acknowledge Event
Ack All
Property Window

Name	Value
PosX	502
PosY	111

Editing Map Tree

To create a map


New Map
Background
Ok
Cancel

Map: New Map

1. Select the parent map to create a child map in the Map Tree.
2. Select New Map menu.
   - Click [ ] button in the Map Tree window.
   - Click Menu > Edit Map > [ ] button.
   - Select a map in the Map Tree by right-clicking and click [ ] button in the context menu.
   - Click [ ] button in the Toolbar.
3. Click on a map name and [←] button to select a background image for the map, and then select [**OK**] button.
   - ■ You can input up to 63 English characters for a map name.
4. Newly created map is added and displayed in the Map Tree.
   Background image supports JPG and BMP files too.

To add a ready-made map

1. Select the parent map to add a ready-made map in the Map Tree.
2. Select Add Map menu.
   - Click [**Add Map** ()] button on the top of Map Tree window.
   - Click Menu > Edit Map > [**Add Map** ()] button.
   - Select a map by right-clicking in the Map Tree and click [**Add Map** ()] button in the context menu.
3. Select a map file to add in [**Map File Open**] dialog window.
4. The created map is displayed.

To delete a map

1. Select a map to delete.
2. Select Delete Map menu.
   - Click [**Delete Map** ()] button on the top of Map Tree window.
   - Click Menu > Edit Map > [**Delete Map** ()] button.
   - Click [**Delete Map** ()] button in the context menu.
3. The map is deleted from the Map Tree; if the map is open, it is closed.

To rename map

1. Select a map to rename in the Map Tree.
2. Select Rename Map menu.
   - Click [**Rename Map**()] button on the top of Map Tree window.
   - Click Menu > Edit Map > [**Rename Map** ()] button.
   - Press the [**F2**] key in keyboard.
   - Click again the selected map to be renamed.
3. The map name switches to editing mode. Type a new name for the map and press [**Enter**] key to finish.

To display a map

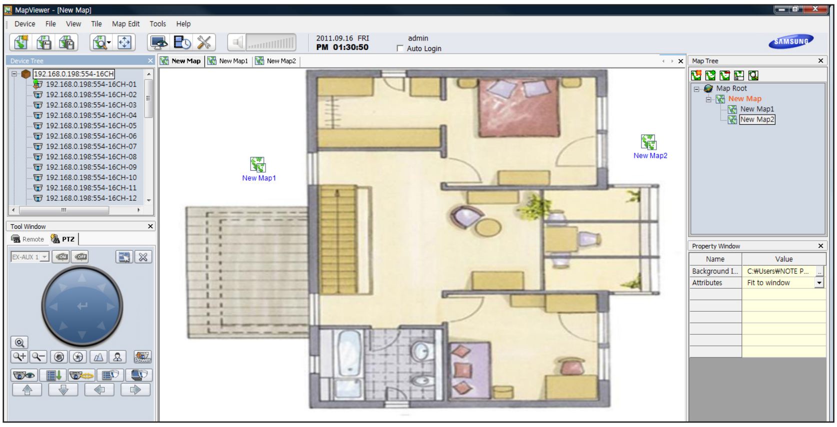
1. Select a map to display.
2. Select View Map menu.
   - Click [**View Map** ()] button on the top of Map Tree window.
   - Click Menu > Edit Map > [**View Map** ()] button.
   - Double-click a desired map in Map Tree.
3. The map is activated if it is open; or the map opens.

To move a map

You can move a map to where you want by dragging and dropping a map in the Map Tree using your mouse.

Map Viewer

Editing Map Screen


MapViewer - [New Map]
Device
File
View
Tile
Map Edit
Tools
Help
2011.09.16 FRI
PM 01:30:50
admin
☐ Auto Login
SAMSUNG
Device Tree
192.168.0.198:554-16CH
192.168.0.198:554-16CH-01
192.168.0.198:554-16CH-02
192.168.0.198:554-16CH-03
192.168.0.198:554-16CH-04
192.168.0.198:554-16CH-05
192.168.0.198:554-16CH-06
192.168.0.198:554-16CH-07
192.168.0.198:554-16CH-08
192.168.0.198:554-16CH-09
192.168.0.198:554-16CH-10
192.168.0.198:554-16CH-11
192.168.0.198:554-16CH-12
Tool Window
Remote
PTZ
EX-AUX 1
ON
OFF
Power
New Map
New Map1
New Map2
New Map1
New Map2
Map Tree
Map Root
New Map
New Map1
New Map2
Property Window

Name	Value
Background I...	C:₩Users₩NOTE P...
Attributes	Fit to window

- Open your desired map to open in the Map Tree on your right.
- You can drag and move the camera and alarm icon from the device tree on the left into the map screen.
- You can drag a map from the Map Tree on the right and place a map link on the map screen.
- You can change the background image by selecting a background image from the map screen and changing it in the Properties window.
- You can also change the settings for camera, alarm, and link by selecting each item from the map screen and changing it in Properties window.

To change background image settings for a map

You can change the background image and its arrangement settings by selecting the background image for the map and opening its Properties window.

You can select one of following arrangement options.

1. NORMAL : The image is arranged based on the top left corner of the screen.
2. CENTER : The image is arranged in the middle of the screen.
3. FIT : The image is scaled to fit to the screen.

To add camera and alarm

You can drag and place your desired camera or alarm icon from the device tree on the map screen.

To change camera properties

- Change camera location
  Move camera using mouse. Or select the camera, and then modify its coordinates in Properties tab.

- Change camera angle
  You can set the angle of camera.

Change camera angle in Properties window; or select the camera, and then adjust camera angle by using mouse wheel.

■ Note that these changes influence only camera icon arrangement settings and do not affect the actual camera.

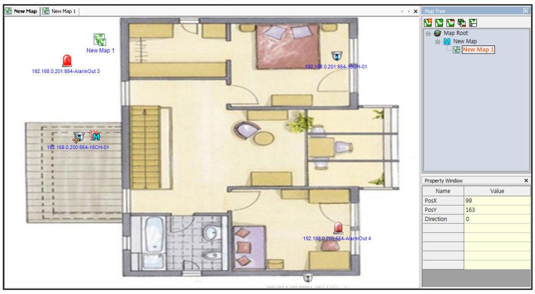
To change alarm properties

You can drag and place alarm icon on the map screen.
Select the alarm icon, and then move it by using your mouse or modifying the coordinates in Properties tab.

To set a link

- **Set a link map in map**

Drag a map from the Map Tree to place in the background image.
Double-click the link map [**Icon area**] in map to go to the corresponding map.


New Map
New Map 1
New Map 1
192.168.0.201:554-AlarmOut 3
192.168.0.201:554-16CH-01
192.168.0.200:554-16CH-01
192.168.0.200:554-AlarmOut 4
Map Tree
Map Root
New Map
New Map 1
Property Window

Name	Value
PosX	99
PosY	163
Direction	0

To view device properties

You can display detailed information by selecting Camera, Alarm, or Site from the device tree, and then pressing the space bar or using [**Properties**] from the context menu.
You can check detailed information by using [**Properties**] for Camera / Alarm context menu in map screen.

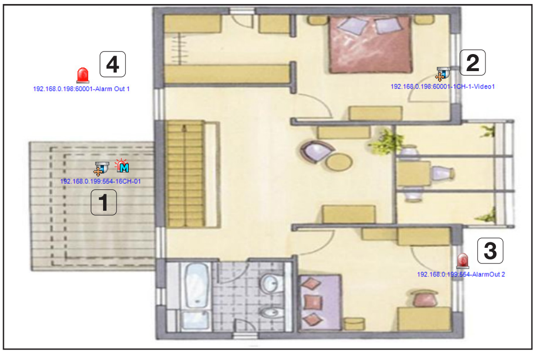
Monitoring Video

1. Check the device status in map screen.
2. Show live video.
3. Playback recently recorded video.
4. Show the video of event-generating camera.
5. Playback the video recorded at the event time.
6. Fix video window when changing map screen.
   - ■ You can display up to 16 videos at the same time.

To check the device status in map screen

You can check the following information from the map displayed above.

1) Connected to 192.168.0.199 camera which supports PTZ. Motion detected recently.
2) Connected to 192.168.0.198 camera which doesn't support PTZ. It has no events.
3) 192.168.0.199 Alarm Out device is connected and it is OFF now.
4) 192.168.0.198 Alarm Out device is connected and it is ON now.


4
192.168.0.198:60001-Alarm Out 1
2
192.168.0.198:60001-1CH-1-Video1
192.168.0.199:554-16CH-01
1
3
192.168.0.199:554-AlarmOut 2

Camera

- You can check if a camera is connected to network.
- You can check if the camera supports PTZ.
- You can identify a camera that is generating an event of Alarm, Motion, Video Loss, Audio Detection and Intelligent Video Analysis.
- You can check the name of camera.
- You can check the camera settings.
- If you select a camera, the camera is displayed as selected in the device tree.
- You can check camera settings by selecting Properties in context menu.

Alarm

- You can check if alarm is connected to network.
- You can check the name of alarm.
- You can check the alarm status (ON/OFF).
- If you select an alarm, the alarm is displayed as selected in the device tree.
- You can check alarm settings by selecting [**Properties**] in context menu.

Link Map

- You can check the name of link map.
- You can check the event-generating link map.
- If you double-click the link, you can go to the corresponding map.

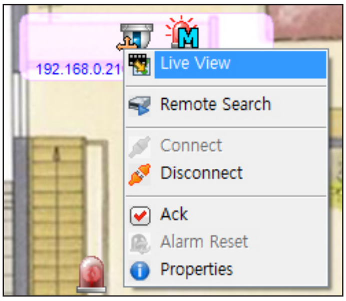
To show live video

You can immediately check the live video of camera which you want to monitor.

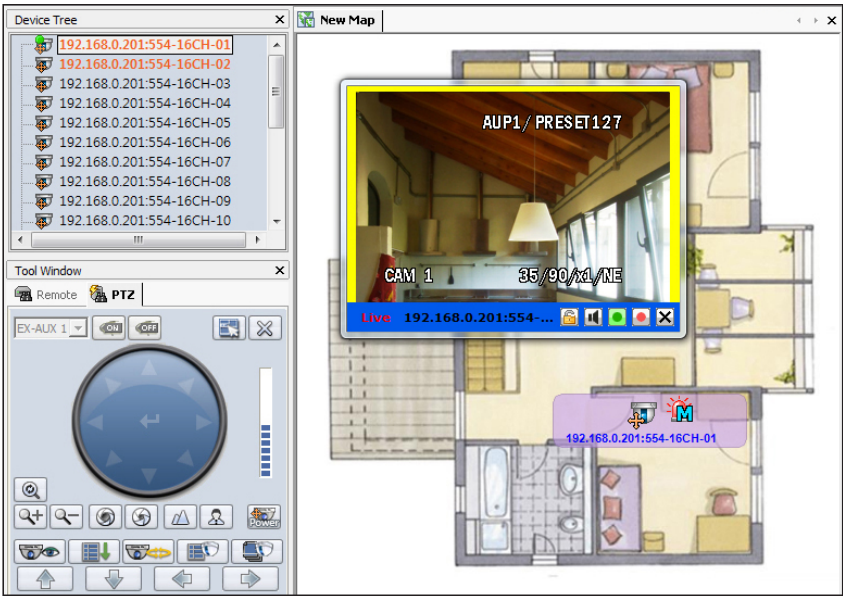
Methods

- Double-click the camera icon placed in the map screen.
- Select the [**Live View**] menu from the context menu of the camera placed in the map screen.

You can not monitor a camera in more than one tile simultaneously.



Result


Device Tree
192.168.0.201:554-16CH-01
192.168.0.201:554-16CH-02
192.168.0.201:554-16CH-03
192.168.0.201:554-16CH-04
192.168.0.201:554-16CH-05
192.168.0.201:554-16CH-06
192.168.0.201:554-16CH-07
192.168.0.201:554-16CH-08
192.168.0.201:554-16CH-09
192.168.0.201:554-16CH-10
Tool Window
Remote
PTZ
EX-AUX 1
ON
OFF
Power
New Map
AUP1/ PRESET127
CAM 1
35/90/x1/NE
Live 192.168.0.201:554-...
192.168.0.201:554-16CH-01

- New video window appears.
- If there is the same video window for the same camera, the existing video window displays the video without opening any new video window.
- At this time, PTZ tab is automatically activated.
- The bottom of the activated video window displays blue color.
- You can also move the video window by dragging it with mouse.
- You can make a manual recording.
- If an event (motion, intelligent video analysis, alarm, video loss) occurs, video window’s background turns to yellow.
- You can resize the video window as you want.

To close video window

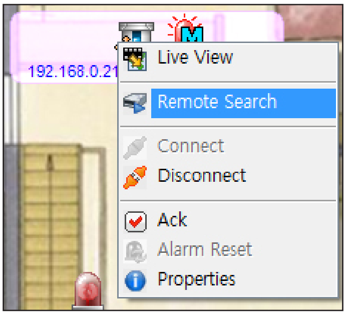
- Press Close at the bottom right corner of the video window to close.
- When in manual recording, it will be automatically stopped.
- If you are listening to a video, the listening is automatically stopped.
- If you are talking while listening, the talking is automatically stopped and you can check the talking status in the tree.

To play the latest recording

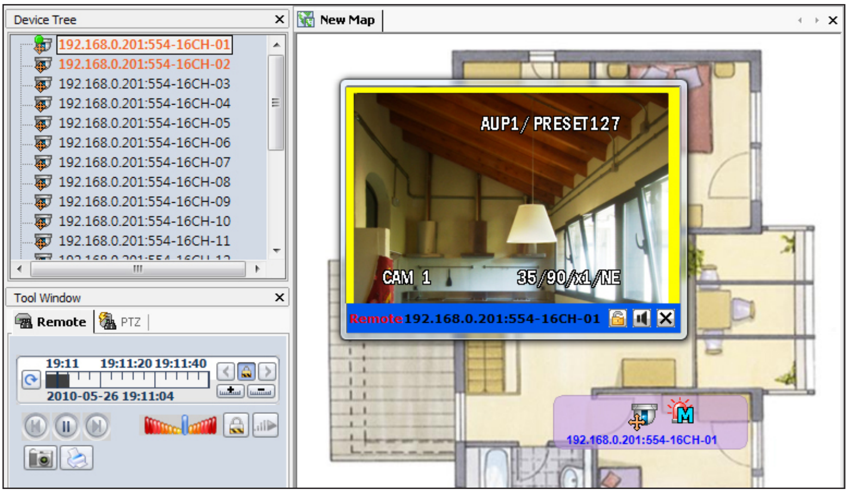
You can promptly play back the latest recording.

Methods

- Select the [**Remote Search**] from the context menu of the desired camera's icon.
- Select the video window, and select [**Remote**] tab of the tool window.


192.168.0.21
Live View
Remote Search
Connect
Disconnect
Ack
Alarm Reset
Properties

Result


Device Tree
192.168.0.201:554-16CH-01
192.168.0.201:554-16CH-02
192.168.0.201:554-16CH-03
192.168.0.201:554-16CH-04
192.168.0.201:554-16CH-05
192.168.0.201:554-16CH-06
192.168.0.201:554-16CH-07
192.168.0.201:554-16CH-08
192.168.0.201:554-16CH-09
192.168.0.201:554-16CH-10
192.168.0.201:554-16CH-11
Tool Window
Remote
PTZ
19:11
19:11:20 19:11:40
2010-05-26 19:11:04
New Map
AUP1/ PRESET127
CAM 1
35/90/x1/NE
Remote192.168.0.201:554-16CH-01
192.168.0.201:554-16CH-01

- New video window appears.
- If there is the same video window for the same camera, the existing video window plays the video without creating any new video window.
- You can check the name of playing camera through the name displayed on the bottom of the video window.
- If there is audio data, click [**Listen**] button to listen to the audio.
- [**Remote**] tab is automatically activated in Tools Window.
  Playback control is available in this tab.

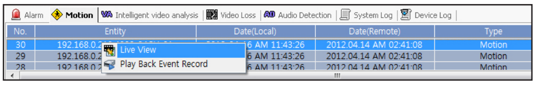
- For remote playback, if anyone else already has the appropriate permission, it fails with an error message in the system log area.
- If you try to play a camera that is checked for search in the Search Viewer, it fails with an error message in the system log area.
- For a device that does not limit the count of concurrent access but limits the count of users who can search or play, only those users who are granted the search permission from the device can do so.

To show the video of event-generating camera

You can check the real-time video which of a camera having events.

Methods

1. Select from [**Alarm**], [**Motion**], [**Video Loss**], [**Audio Detection**] and [**Intelligent Video Analysis**] tab from the message window.
2. Select menu.
   - Double-click your desired event item in the event list.
   - Select [**Live View**] from the context menu of the desired event item in the event list.


Alarm
Motion
Intelligent video analysis
Video Loss
Audio Detection
System Log
Device Log
Live View
Play Back Event Record

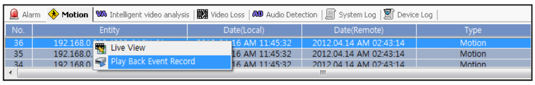
No.	Entity	Date(Local)	Date(Remote)	Type
30	192.168.0.2	6 AM 11:43:26	2012.04.14 AM 02:41:08	Motion
29	192.168.0.2	6 AM 11:43:26	2012.04.14 AM 02:41:08	Motion
28	192.168.0.2	6 AM 11:43:26	2012.04.14 AM 02:41:08	Motion

To playback the video recorded at the event time

You can check the event time in the event list.
You can immediately play the video recorded in that time.

Methods

1. Select from [**Alarm**], [**Motion**], [**Video Loss**], [**Audio Detection**] and [**Intelligent Video Analysis**] tab from the message window.
2. Select menu.
   - Select an item from the event list, open the context menu and select [**Play Back Event Record**] menu.


Alarm
Motion
Intelligent video analysis
Video Loss
Audio Detection
System Log
Device Log
Live View
Play Back Event Record

No.	Entity	Date(Local)	Date(Remote)	Type
36	192.168.0.	16 AM 11:45:32	2012.04.14 AM 02:43:14	Motion
35	192.168.0.	16 AM 11:45:32	2012.04.14 AM 02:43:14	Motion
34	192.168.0.	16 AM 11:45:32	2012.04.14 AM 02:43:14	Motion

Result

1. Playback starts from the point behind the current time by instant replay time configured in Setup.
   The instant replay time can be set in the [**Setup Tool**] application.

- Refer to "**Setup tool > Option**". (▶ page 29)

2. If there is no recorded video for the selected camera, this function doesn't work.

Auto popup of the Live video for an event

When an event occurs, the Live video for the camera detecting an event will pop up and the map will be activated accordingly where the event detecting camera is registered.

However, any open map can be activated.

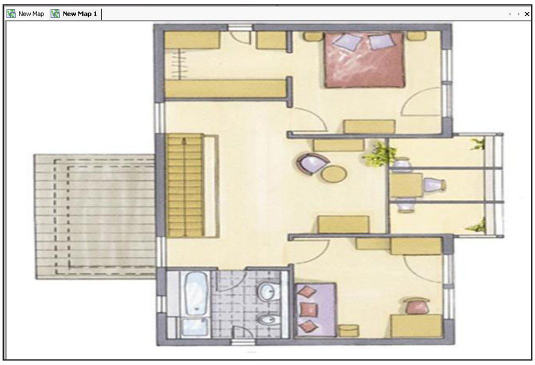
Just one event video window can be activated. If another event occurs while the event window is active, the event widow will be updated with the new event.

- For details on the auto popup feature, refer to [**View Tree**] > [**Logical View**] > [**Option**]. (▶ page 14)

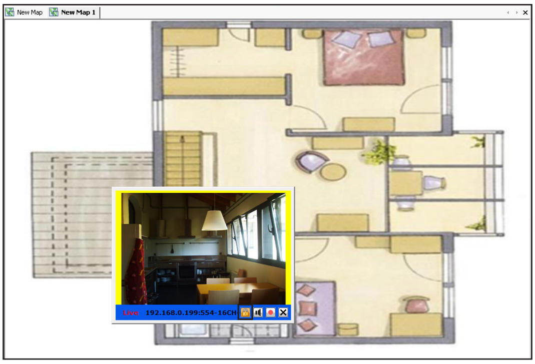
Map Viewer

To fix video window when changing map screen

If you loaded Live Video from the context menu after selecting [**New Map**] map, selecting [**New Map1**] map will automatically close the Live Video window



To fix the Live Video window not to be closed by map changes, press the [**Lock**] button.



Monitoring Event

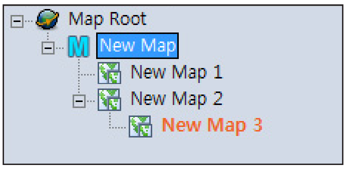
You can check event generating camera in the map if any, and you can check the event generating map in the Map Tree.

Also, you can check the log of events in Messages window.

To identify an event-triggered map

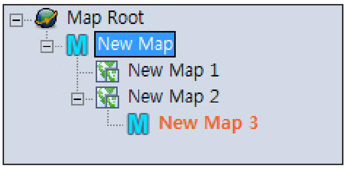
You can identify a map triggering an event in the Map Tree.
If any motion is detected at the camera placed in a map, you can check which map has such event triggering motion through the Map Tree without opening all maps.
Alarm and video loss can be checked in the same manner.
Note that only recently occurred event is displayed in the map.

- After the Map icon is changed due to a motion occurring from a linked camera in the "**New Map**" tree.



Map Root
  New Map
    New Map 1
    New Map 2
      New Map 3

- After the font color of the name of the linked map is changed, which belongs to the "**New Map**" tree containing "**New Map 3**" where the event occurs.

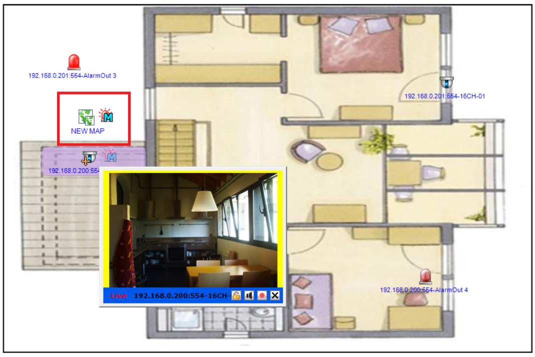


Map Root
  New Map
    New Map 1
    New Map 2
      New Map 3

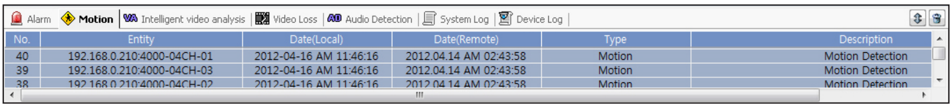
To identify the event-triggered linked map in the map screen

The following illustrates that a motion has been detected in the New Map.

You can easily identify the event-triggered camera, where simply double-clicking the linked map icon will open the corresponding map screen.


192.168.0.201:554-AlarmOut 3
NEW MAP
192.168.0.201:554-16CH-01
192.168.0.200:554
Live 192.168.0.200:554-16CH-
192.168.0.200:554-AlarmOut 4

To view real-time event log


Alarm
Motion
Intelligent video analysis
Video Loss
Audio Detection
System Log
Device Log

No.	Entity	Date(Local)	Date(Remote)	Type	Description
40	192.168.0.210:4000-04CH-01	2012-04-16 AM 11:46:16	2012.04.14 AM 02:43:58	Motion	Motion Detection
39	192.168.0.210:4000-04CH-03	2012-04-16 AM 11:46:16	2012.04.14 AM 02:43:58	Motion	Motion Detection
38	192.168.0.210:4000-04CH-02	2012-04-16 AM 11:46:16	2012.04.14 AM 02:43:58	Motion	Motion Detection

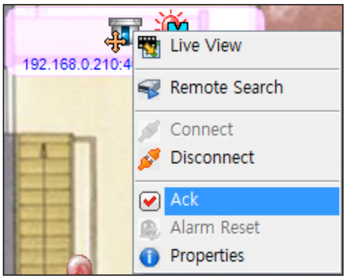
- Refer to "**Live Viewer > Real-time event monitoring**". (► pages 46~47)

To acknowledge events

You can [**Ack**] events by camera or map.

Acknowledge events by camera

If you select [**Ack**] in the context menu after selecting a camera, the event for the camera is acknowledged and released.

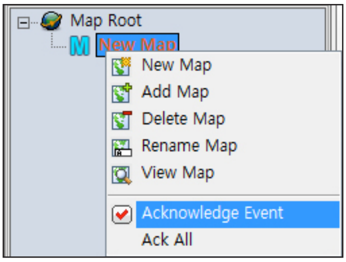

192.168.0.210:4
Live View
Remote Search
Connect
Disconnect
Ack
Alarm Reset
Properties

Map Viewer

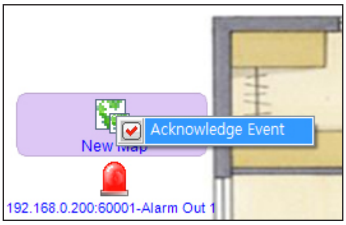
Acknowledge Events by map

If you select [**Acknowledge Event**] in the context menu after selecting a camera, the event for the camera is acknowledged and released.

If you select [**Ack All**] from the context menu in the Map Tree, all events of all cameras in the selected maps and the sub-maps in the Map Tree are acknowledged and released.

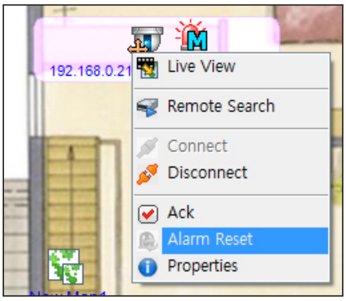

Map Root
New Map
New Map
Add Map
Delete Map
Rename Map
View Map
Acknowledge Event
Ack All

If you click the linked map and select [**Acknowledge Event**] in the context menu, all events occurring from all cameras that belong to the linked map will be deactivated.


New Map
Acknowledge Event
192.168.0.200:60001-Alarm Out 1

Alarm Reset

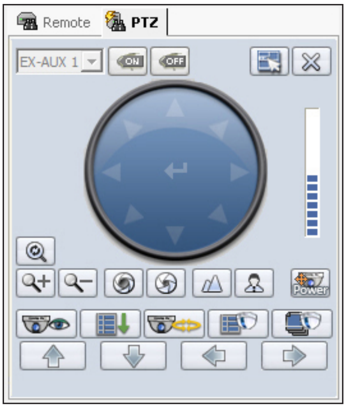
Resets event of the selected device, and cancels alarm.


192.168.0.21
Live View
Remote Search
Connect
Disconnect
Ack
Alarm Reset
Properties

Controlling PTZ

PTZ functions are available only for live video.

- Refer to "**Live Viewer > PTZ Control**". (▶ page 44)

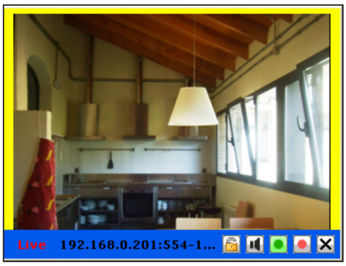

Remote
PTZ
EX-AUX 1
ON
OFF
Power

MANUAL RECORDING

This function is available only for the Live View window which is currently playing a live video.

Methods

1. Select desired camera to be recorded.
2. Select [**Live Viewer**] in the context menu.
3. Click the [**Local Recording**] or [**Remote Recording**] button on the bottom of the video window to start/stop recording.
   This button is a toggle button: Record / Stop



Result

Recording is performed for the duration assigned in Setup, and automatically stops.

- Refer to "**Setup Tool** > **Option**". (▶ page 29)

- You can find and play the saved video by using the Search Viewer.

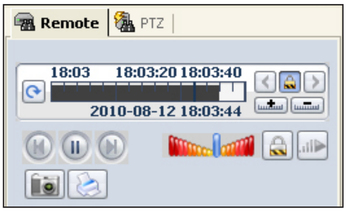
- If recording failed, you can check the reason in the System Log.

- NET-i viewer supports up to 4 channels of simultaneous recording.

CONTROLLING PLAYBACK

You can control the playback of recorded file.

- Refer to "**Search Viewer** > **Playback back Control**". (▶ pages 63~64)



Talk Function

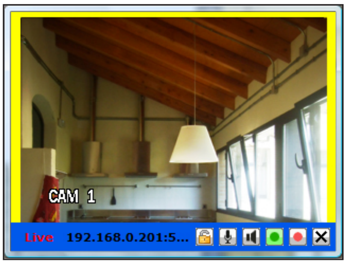
You can send your voice through the speakers connected to the set installed in a remote site.

This function is available only for live video.

If camera supports Talk function, the [**Talk**] button is displayed.

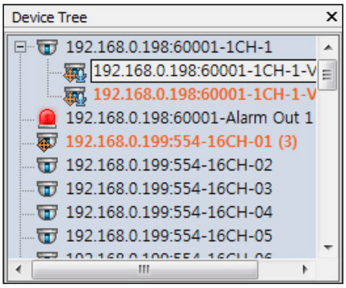
Click the [**Talk**] button on the bottom of the video window to start / stop talking.

- This button is a toggle button.
  Talking [🎤] / Stopped [🎤]



Map Viewer

- You can check cameras in Talk mode in all viewer trees.



Device Tree

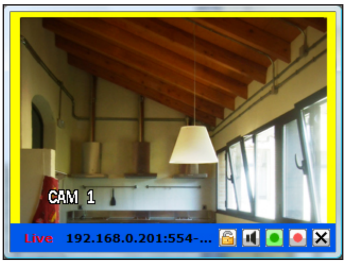
192.168.0.198:60001-1CH-1
192.168.0.198:60001-1CH-1-V
192.168.0.198:60001-1CH-1-V
192.168.0.198:60001-Alarm Out 1
192.168.0.199:554-16CH-01 (3)
192.168.0.199:554-16CH-02
192.168.0.199:554-16CH-03
192.168.0.199:554-16CH-04
192.168.0.199:554-16CH-05

- Only one camera can Talk at a time.

Listen Function

Listen Start/Stop

If camera supports the Listen function, the [**Listen**] button is displayed. Select the [**Listen**] button on the bottom of the video window to start / stop listening.



- This button is a toggle button.
  Listening [🔊] / Stopped [🔊]
- For volume adjustment and audio mute, refer to “**Live Viewer** > **Listen**”.
  (▶ page 48)

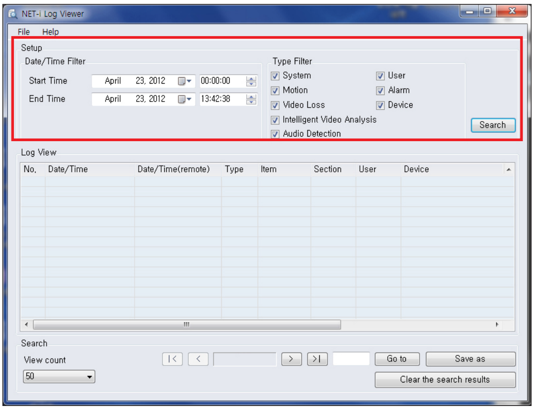
Log Viewer

You can sort the logs of NET-i viewer by the time and the type whatever log you searched for.

SEARCH

You can search for logs by sorting them by the type according to the time.

1. Specify the start and end times of your search.
2. Select a type by clicking the corresponding checkbox.
   - System: Connect/disconnect the device, change the PC time
   - User: Start/stop NIS, Log In/Out, Register/Modify/Delete Device, Manual connect/disconnect by user, Remote backup, Device Setup, Import/Export, Firmware upgrade, Change log settings, Delete all log files, Get/Fail to get HDD space, Overwrite due to a full HDD space
   - Motion, Alarm, Video Loss, Device, Intelligent Video Analysis, Audio Detection.
3. Click [**Search**].
   The search results will be listed in the log view.


NET-i Log Viewer
File
Help
Setup
Date/Time Filter
Type Filter
Search
Log View
No.
Date/Time
Date/Time(remote)
Type
Item
Section
User
Device
Search
View count
Go to
Save as
Clear the search results

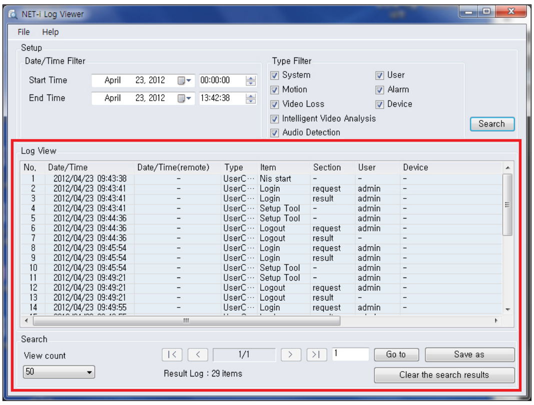
Start Time: April 23, 2012 00:00:00
End Time: April 23, 2012 13:42:38
☑ System ☑ User
☑ Motion ☑ Alarm
☑ Video Loss ☑ Device
☑ Intelligent Video Analysis
☑ Audio Detection
View count: 50

- If you delete log items manually in the Explorer or in the Setup menu while the Log Viewer is running, the search results will not be synchronized automatically.
- The log results will be displayed only in English.

CHECK RESULTS

You can sort the results to your preference or limit the number of results to be displayed on one page if many found.

- Log View : You can select desired items and sort them to your preference.
- View Count : You can specify the number of results displayed on one page.
- Go to : Move to the previous/next page or the first/last page.
- Save as : You can save the search results as a text file.
- Clear the search results : Clears out all search results in the log view.


NET-i Log Viewer
File
Help
Setup
Date/Time Filter
Type Filter
Search
Log View
Search
View count
Go to
Save as
Clear the search results

Start Time: April 23, 2012 00:00:00
End Time: April 23, 2012 13:42:38
☑ System ☑ User
☑ Motion ☑ Alarm
☑ Video Loss ☑ Device
☑ Intelligent Video Analysis
☑ Audio Detection

No.	Date/Time	Date/Time(remote)	Type	Item	Section	User	Device
1	2012/04/23 09:43:38	-	UserC···	Nis start	-	-	-
2	2012/04/23 09:43:41	-	UserC···	Login	request	admin	-
3	2012/04/23 09:43:41	-	UserC···	Login	result	admin	-
4	2012/04/23 09:43:41	-	UserC···	Setup Tool	-	admin	-
5	2012/04/23 09:44:36	-	UserC···	Setup Tool	-	admin	-
6	2012/04/23 09:44:36	-	UserC···	Logout	request	admin	-
7	2012/04/23 09:44:36	-	UserC···	Logout	result	-	-
8	2012/04/23 09:45:54	-	UserC···	Login	request	admin	-
9	2012/04/23 09:45:54	-	UserC···	Login	result	admin	-
10	2012/04/23 09:45:54	-	UserC···	Setup Tool	-	admin	-
11	2012/04/23 09:49:21	-	UserC···	Setup Tool	-	admin	-
12	2012/04/23 09:49:21	-	UserC···	Logout	request	admin	-
13	2012/04/23 09:49:21	-	UserC···	Logout	result	-	-
14	2012/04/23 09:49:55	-	UserC···	Login	request	admin	-

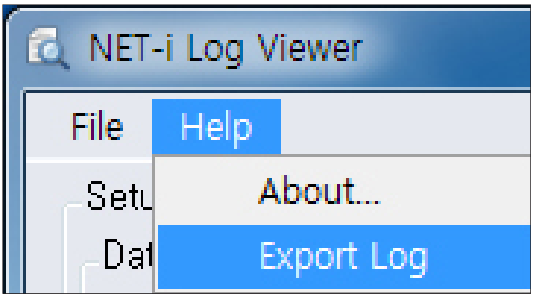
View count: 50
1/1
Go to: 1
Result Log : 29 items

- You can not print out the results directly in the log view. However, you can save them as a text file and print it out.

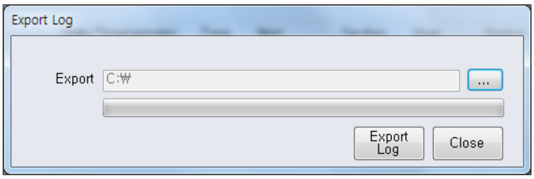
Log Viewer

EXPORTING LOGS

You can export system logs, system profiles, device database and user registration in [**Help**] > [**Export Log**].


NET-i Log Viewer
File
Help
About...
Export Log
Setu
Dat

1. Select the target path for log saving. The default is set to C: drive.
2. Press the [**Export Log**] button to save the compressed log file (filename: Export_saved time.zip) under the selected path.


Export Log
Export
...
Export Log
Close

Export C:₩

NET-i viewer Update

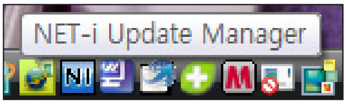
INSTALLATION

It is installed along with the NET-i viewer installation file.

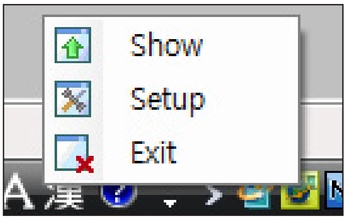
RUN

If you run the NET-i viewer application, the [**NET-i viewer Updater**] is also loaded.
If it is running, you can see the tray icon of [**NET-i Update Manager**] in the taskbar as shown below.

1. Place the cursor over the tray icon.
   The tooltip appears as shown in the right figure.



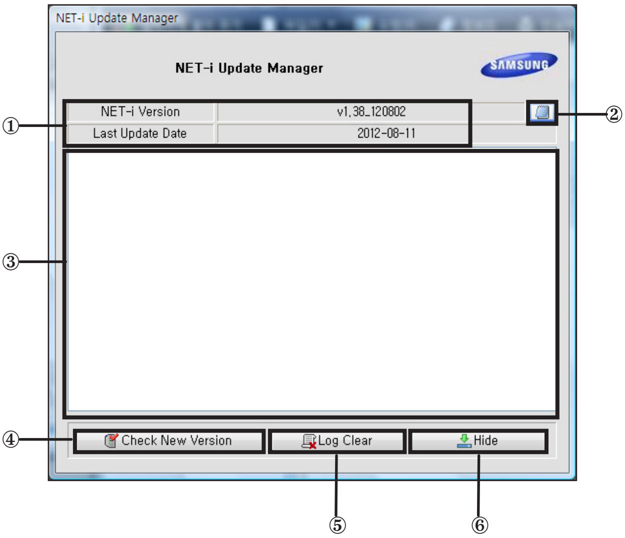
2. Right-click the tray icon.
   The context menu appears as shown in the right figure.



UPDATING TO THE LATEST

You can check explicitly if the latest version is released by connecting to the upgrade server regardless of AutoCheck function setup.

1. Right-click the [**NET-i Update Manager**] tray icon.
2. Select [**Show**] menu in the context menu.
3. Select the [**Check New Version**] button in [**NET-i Update Manager**] window.



NET-i Version v1.38_120802
Last Update Date 2012-08-11

① You can check currently installed version and installation date on the window.

② You can check the release note for currently installed version by clicking [**Release Note**] button.

③ You can check the communication log.
You can check the reason of failure through this log.

④ You can check if any version that is newer than currently installed one is released from the server by clicking [**Check New Version**]button.

⑤ You can delete the log by clicking [**Log Clear**] button.

⑥ You can close the window by clicking [**Hide**] button.

NET-i viewer Update

SETTING AUTO-UPDATING

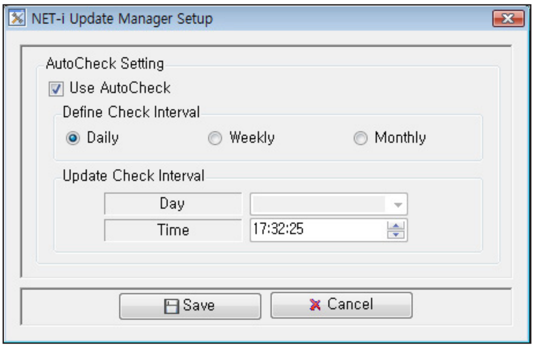
You can automatically check update release by setting automatic update checking interval.

1. Right click on the [**NET-i Update Manager**] tray icon.
2. Select [**Setup**] menu in the context menu.
3. Select [**Save**] button after changing the settings in the Setup window.

To select the automatic checking interval

You can set the interval to check update everyday.

1. Select Daily by clicking it.
2. Set the time of the automatic update checking.
   Ex) The right image displays that the interval is set to check update release at 17:32:25 everyday.



NET-i Update Manager Setup

AutoCheck Setting

☑ Use AutoCheck

Define Check Interval

● Daily ○ Weekly ○ Monthly

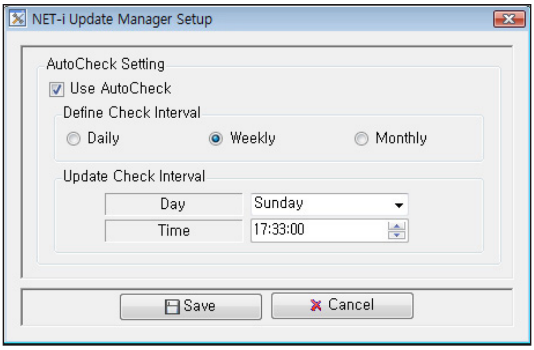
Update Check Interval

Day:

Time: 17:32:25

You can set the interval to check update every week.

1. Select Weekly by clicking it.
2. Set the day of a week for the automatic update checking.
3. Set the time of the automatic update checking.
   Ex) The right image displays that the interval is set to check update release at 17:33:00 on every Sunday.



NET-i Update Manager Setup

AutoCheck Setting

☑ Use AutoCheck

Define Check Interval

○ Daily ● Weekly ○ Monthly

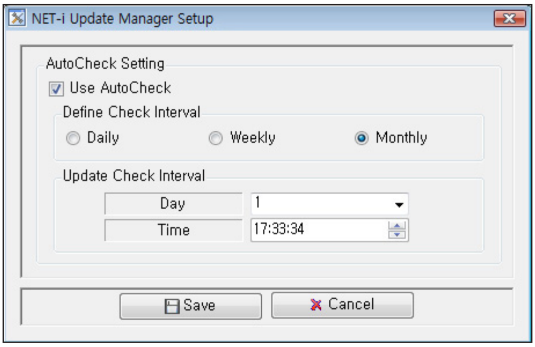
Update Check Interval

Day: Sunday

Time: 17:33:00

You can set the interval to check update every month.

1. Select Monthly by clicking it.
2. Set the date of the automatic update checking.
3. Set the time of the automatic update checking.
   Ex) The right image displays that the interval is set to check update release at 17:33:34 on 1st day of every month.



NET-i Update Manager Setup

AutoCheck Setting

☑ Use AutoCheck

Define Check Interval

○ Daily ○ Weekly ● Monthly

Update Check Interval

Day: 1

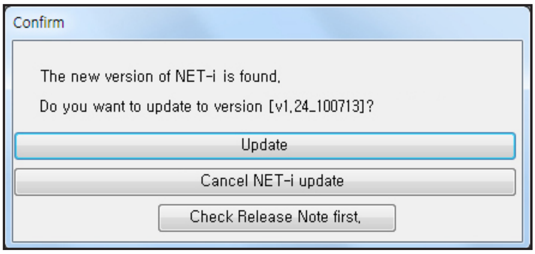
Time: 17:33:34

AUTO UPDATE SCENARIO

To check the latest version

If there is a newer version available in the server, the message shown right appears.

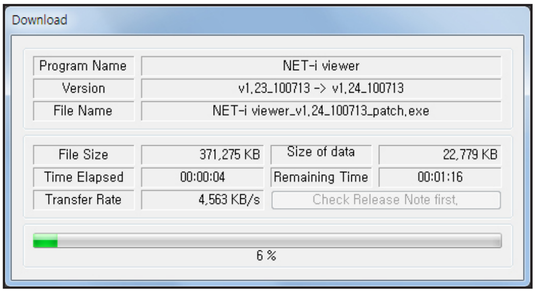
Before selecting to proceed or cancel update, you can open the release note of the latest version to check what's been changed.



The new version of NET-i is found.
Do you want to update to version [v1.24_100713]?

To download

Select [**Update**] button to download the installation file.



Program Name	NET-i viewer
Version	v1.23_100713 -> v1.24_100713
File Name	NET-i viewer_v1.24_100713_patch.exe

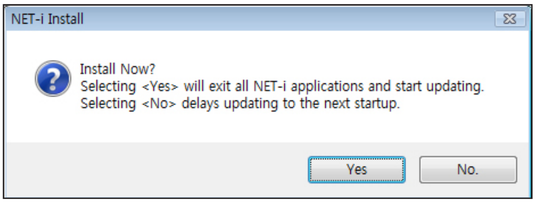
File Size	371,275 KB	Size of data	22,779 KB
Time Elapsed	00:00:04	Remaining Time	00:01:16
Transfer Rate	4,563 KB/s		

6 %

To confirm to install

If download is completed, confirm to begin installation now or not.

Selecting [**No**] after the new installation file has been downloaded will prompt you with the same confirmation window of [**Confirm**] when you restart NET-i viewer as shown right.



Install Now?
Selecting <Yes> will exit all NET-i applications and start updating.
Selecting <No> delays updating to the next startup.

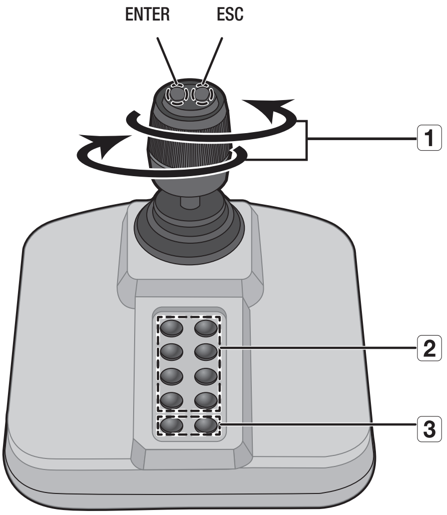
- If you select [**No**] in [**NET-i Install**] window and you reload the NET-i application later, [**NET-i Update Manager**] checks if any latest version released from the server. If there is a newer version available and it has higher version than the existing download saved in your local PC, the existing downloaded file is discarded and the latest installation file is newly downloaded.

To install

If you select [**Yes**] in NET-i Install window, all NET-i viewer applications are automatically closed and the installation begins as shown below.

- The automatic or manual update may not work properly due to the real-time monitoring function of antivirus software. If you encounter this problem, deactivate the real-time monitoring function of the antivirus software and try again.

USING THE JOYSTICK



Item		Description
1	Left/Right	Move the pan to the left/right in PTZ mode.
	Up/Down	Move the tilting up/down in PTZ mode.
	Rotate	In PTZ mode, zoom in if rotating clockwise; zoom out if rotating counter clockwise.
2	1 ~ 8	Perform the selected preset operation from 1 to 8.
3	9 ~ 10	Move the tile in Live Viewer mode. It supports the multiple-monitoring system. If it reaches the last tile, you will return to the first tile.

- The axial correction is needed for a proper operation.
  On your desktop, select [**Start**] → [**Setup**] → [**Control Panel**] → [**Game Controller**] → [**Properties**] → [**Setup**].
  Click [**Correct**] to launch the "device correction wizard". Follow the onscreen instructions to perform the correction.

Moving the tile

When the joystick is active, use it to move the channel focus.

While a tile is selected, press [**9**] to move to the previous channel; press [**10**] to move to the next channel.

SHORTCUT KEYS

Focus	Shortcut Keys	Description		LIVE	SEARCH	SETUP	MAP
Viewer	Ctrl + Page Up	Layout	Move to the previous layout	●	○	○	○
	Ctrl + Page Down		Move to the next layout	●	○	○	○
	Ctrl + S		Save layout	●	○	○	○
	Ctrl + R		Retrieve layout	●	○	○	○
	Ctrl + Back Space		Close layout video	●	●	○	○
	Ctrl + F	Camera	Find camera	●	●	●	○
	Enter		View Video	○	○	○	●
	Ctrl + P	Changes focus	PTZ Control Tab	●	○	○	○
	Ctrl + D		Digital Zoom	●	○	○	○
	Ctrl + C		Camera Tree	●	○	○	●
	Ctrl + G		View log	●	●	○	●
	Ctrl + V		Volume	●	○	○	○
	Ctrl + R		Displays remote video	○	○	○	●
	Ctrl + V	Volume	Volume control (use arrows)	●	●	○	●
	ESC	Fullscreen	Operates only in full screen mode This will set off the full screen mode	●	●	○	●
	Ctrl + Space		Alarm Ack	●	○	○	●
Tree Camera	Space	Properties	View information on the selected object	●	●	○	●
	F2	Rename Object	Change selected object	○	○	●	○
List Item	Space		View object information on the selected item	●	○	○	●
Others	F3	Find	This is the Find Next function in the Find dialog box	○	●	●	○
	Shift + F3	Find	This is the Find Previous function in the Find dialog box	○	●	●	○

Supplement

Focus	Shortcut Keys	Description		LIVE	SEARCH	SETUP	MAP
Tile	Ctrl + Tab		Move to the next tile	●	●	○	●
	Ctrl + Shift + Tab		Move to the previous tile	●	●	○	●
	Ctrl + Tab		Move to the previous map	○	○	○	●
	Ctrl + Shift + Tab		Move to the next map	○	○	○	●
	E		View in one window / Restore	●	●	○	○
	Back Space, Del		Close movie	●	●	○	●
	L		Start/Stop local recording	●	○	○	●
	F		Player Lock	○	○	○	●
	, (Comma)		Talk ON/OFF	●	○	○	●
	. (Period)		Listen ON/OFF	●	○	○	●
	Shift + Left Arrow	PTZ	PTZ - left (applicable for the digital zoom tile)	●	○	○	●
	Shift + Right Arrow		PTZ - Right	●	○	○	●
	Shift + Up Arrow		PTZ - Top	●	○	○	●
	Shift + Down arrow		PTZ - Bottom	●	○	○	●
	Shift + ‘*’		Zoom In	●	○	○	●
	Shift + ‘/’		Zoom Out	●	○	○	●
	Alt + Insert		View preset list	●	○	○	●
	8	Palyback	Play Forward / Stop	○	●	○	●
	9		FB	○	●	○	●
	7		BB	○	●	○	●
	‘+’		Play faster	○	●	○	●
	‘–’		Play Slower	○	●	○	●
	‘*’		Expand timeline (Zoom In)	○	●	○	●
	‘/’		Compress timeline (Zoom out)	○	●	○	●
	Space	View Information	View information on the media information of the selected tile	●	●	○	●
	Mouse Wheel Up		Optical Zoom In	●	○	○	●
	Mouse Wheel Down		Optical Zoom Out	●	○	○	●

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